doubtnut
India's Number 1 Education App

MATHS

BOOKS - VGS PUBLICATION-BRILLIANT

FACTORISTION

Example

1. Express the given numbers in the form of product of primes : 48.

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2. Express the given numbers in the form of product of primes : 72.

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3. Express the given numbers in the form of product of primes : 96.

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4. Find the factors of following : $8x^2yz$

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5. Find the factors of following : 2xy(x+y)

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6. Find the factors of following : $3x + y^2z$

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7. Factorize : 16xy + $9y^2$

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8. Factorize : 25 $a^2b + 35ab^2$.

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9. Factorise : $9a^2$- 6a.

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10. Factorise : $15a^3b - 35ab^3$.

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11. Factorise : 7lm - 21/mn.

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12. Factorise : $3x^2 + 6x^2y + 9xy^2$.

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13. Factorise : 5xy + 5x+4y+ 4.

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14. Factorise : 3ab +3a + 2b + 2.

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15. Factorise : $6ab - b^2 - 2bc + 12ac.$

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16. Factorise : $x^2 + 10x + 25.$

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17. Factorise : $16z^2 - 48z + 36.$

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18. $25p^2$ - $49q^2$ = ____

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19. Factorise : $48a^2 - 243b^2$.

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20. Factorise : $x^2 + 2xy + y^2 - 4z^2$.

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21. Factorise : $p^4 - 256$.

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22. Factorise : $m^2 - 4m - 21$.

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23. Factorise : $4x^2 + 20x - 96$.

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Exercise

1. Find the common factors of the give terims in each :8x, 24.

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2. Find the common factors of the give terims in each : 3a, 21ab.

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3. Find the common factors of the give terims in each : $7xy, 35x^2y^3$.

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4. Find the common factors of the given terms in each : $4m^2, 6m^2, 8m^3$.

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5. Find the common factors of the given terms in each :15p, 20qr, 25rp.

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6. Find the common factors of the give terims in each : $4x^2, 6xy, 8y^2x$.

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7. Find the common factors of the give terims in each :

$12x^2y, 18xy^2.$

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8. Factorise the following expressions : $5x^2 - 25xy$

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9. Factorise the following expressions : $9a^2 - 6ax.$

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10. Factorise the following expressions : $7p^2 + 49pq$.

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11. Factorise the following expressions : $36a^2b - 60a^2bc$.

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12. Factorise the following expressions : $3a^2bc + 6ab^2c + 9abc^2$.

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13. Factorise the following expressions : $4p^2 + 5pq - 6pq^2$.

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14. Factorise the following expressions : $ut + at^2$.

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15. Factorise the following : 3ax - 6xy + 8by - 4ab.

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16. Factorise the following : $x^3 + 2x^2 + 5x + 10$.

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17. Factorise the following : $m^2 - mn + 4m - 4n$.

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18. Factorise the following : $a^3 - a^2b^2 - ab + b^3$.

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19. Factorise the following : $p^2q - pr^2 - pq + r^2$.

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20. Factorise the following expression : $a^2 + 10a + 25$

.

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21. Factorise the following expression :$l^2 - 16l + 64$.

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22. Factorise the following expression :

$36x^2 + 96xy + 64y^2.$

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23. Factorise the following expression :

$25x^2 + 9y^2 - 30xy.$

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24. Factorise the following expression :

$25m^2 - 40mn + 16n^2.$

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25. Factorise the following expression : $81x^2 - 198xy + 121y^2$.

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26. Factorise the following expression : $(x + y)^2 - 4xy$.

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27. Factorise the following expression : $l^4 + 4l^2m^2 + 4m^4$.

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28. Factorise the following : $x^2 - 36$.

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29. Factorise the following : $49x^2 - 25y^2$.

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30. Factorise the following : $m^2 - 121$.

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31. Factorise the following : $81 - 64x^2$.

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32. Factorise the following : $x^2y^2 - 64$.

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33. Factorise the following : $6x^2$- 54.

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34. Factorise the following : $x^2 - 81$.

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35. Factorise the following : $2x - 32x^5$.

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36. Factorise the following : $81x^4 - 121x^2$.

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37. Factorise the following : $\left(p^2 - 2pq + q^2\right) - r^2$.

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38. Factorise the following : $(x+y)^2-(x-y)^2$.

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39. Factorise the expressions :lx^2+mx.

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40. Factorise the expressions : $7y^2+35z^2$.

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41. Factorise the expressions : $3x^4 + 6x^3y + 9x^2z$.

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42. Factorise the expressions : $x^2 - ax - bx + ab$.

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43. Factorise the expressions : 3ax-6ay-8by +4bx.

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44. Factorise the expressions : mn+m+n+1.

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45. Factorise the expressions : $6ab - b^2 + 12ac - 2bc$.

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46. Factorise the expressions : $p^2q - pr^2 - pq + r^2$.

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47. Factorise the expressions : x(y+z)-5(y + z).

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48. Factorise the following : $x^4 - y^4$.

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49. Factorise the following :$a^4 - (b + c)^4$.

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50. Factorise the following : $l^2 - (m - n)^2$.

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51. Factorise the following : $49x^2 - \frac{16}{25}$.

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52. Factorise the following : $x^4 - 2x^2y^2 + y^4$.

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53. Factorise the following : $4(a+b)^2 - 9(a-b)^2$.

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54. Factorise the following expressions :

$a^2 + 10a + 24$.

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55. Factorise the following expressions :

$x^2 + 9x + 18$.

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56. Factorise the following expressions :

$p^2 - 10p + 21.$

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57. Factorise the following expressions :

$x^2 - 4x - 32.$

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58. $70\frac{x^4}{14x^2}$ = ----

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59. Do the following Division : $4x^3y^3z^3 : -12xyz.$

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60. Divide $30\left(a^2bc + ab^2c + abc^2\right)$ by 6abc.

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61. Divide $39y^3\left(50y^2 - 98\right)$ by $26y^2(5y + 7).$

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62. Divide $m^2 - 14m - 32bym + 2$.

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63. Divide $42\left(a^4 - 13a^3 + 36a^2\right)$ by 7a(a-4).

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64. Divide $x\left(3x^2 - 108\right)$ by 3x(x-6).

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65. Carry out the following divisions :$48a^3$ by 6a

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66. Carry out the following division : $14x^2$ by $42x^2$

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67. Carry out the following division : $72a^3b^4c^5$ by $8ab^2c^3$.

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68. Carry out the following divisions : `11xy^2z^3 by 55xyz.

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69. Carry out the following divisions : $-54l^4m^3n^2$ by $9l^2m^2n^2$

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70. Divide the given polynomial by the glven monomial : $\left(3x^2 - 2x\right)$ divided x.

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71. Divide the given polynomial by the glven monomial : $\left(5a^3b - 7ab^3\right)$ dividedby ab

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72. Divide the given polynomial by the glven monomial : $\left(25x^5 - 15x^4\right) \div 5x^3$

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73. Divide the given polynomial by the glven monomial: $\left(4l^5 - 6l^4 + 8l^3\right)$ + 2l^2`

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74. Divide the given polynomial by the glven monomial: $15\left(a^3b^2c^2 - a^2b^3c^2 + a^2b^2c^3\right) \div (3abc)$

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75. Divide the given polynomial by the glven monomial : $\left(3p^3 - 9p^2q - 6pq^2\right) \div (-3p)$

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76. Divide the given polynomial by the glven monomial : $\left((2/3)a^2b^2c^2 + (4/3)ab^2c^2\right) \div (1/2abc)$

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77. Workout the following divisions : (49x-63) ÷ 7

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78. Workout the following divisions :12x (8x-20) ÷ 4(2x-5).

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79. Workout the following divisions : $11a^3b^3(7c-35) \div \left(3a^2b^2(c-5)\right)$.

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80. Workout the following divisions : $54mnl(l+m)(m+n)(u+l) \div (81mn(l+m)(n+l))$

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81. Workout the following divisions : 36 (x+4) $\left(x^2+7x+10\right) \div 9$ (x+4).

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82. Workout the following divisions : a(a+1)(a+2)(a + 3) ÷ a(a + 3)

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83. Factorize the expressions and divide them as directed : $\left(x^2+7x+12\right)$ ÷ (x+3).

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84. Factorize the expressions and divide them as directed : $\left(x^2-8x+12\right)$ ÷(x-6).

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85. Factorize the expressions and divide them as directed : $\left(p^2+5p+4\right) \div$ (p+1).

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86. Factorize the expressions and divide them as directed : $15ab\left(a^2-7a+10\right) \div$ 3b (a-2).

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87. Factorize the expressions and divide them as directed : $15lm\left(2p^2-2q^2\right) \div$ 3l (p+q).

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88. Factorize the expressions and divide them as directed : $26z^3(32z^2 - 18) \div 13z^2(4z - 3)$.

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89. Srilekha solved the given equation as shown below . 3x+4x+x+2x=90, 9x= 90 Therefore x= 10, What could say about the correctness of the solution? Can you identify where Srilekha has gone wrong?

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90. Abraham did the following for x=-4, 7x=7-4=-3

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91. Harmeet does the divison as (a+5) ÷ 5 = a+1, His friend Srikar done the same (a+5) ÷ 5 = $\frac{a}{5} + 1$, and his friend Rosy did it this way (a+5) ÷5=a, can you guess who has done it correctly? Justify.

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92. Find the errors and correct the following mathematical sentences :3(x-9) =3x-9.

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93. Find the errors and correct the following mathematical sentences : $x(3x + 2) = 3x^2 + 2$.

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94. Find the errors and correct the following mathematical sentences :2x+3x = $5x^2$.

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95. Find the errors and correct the following mathematical sentences : $2x+x+3x = 5x$.

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96. Find the errors and correct the following mathematical sentences : $4p+3p+2p+p-9p=0$

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97. Find the errors and correct the following mathematical sentences : $3x +2y = 6xy$

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98. Find the errors and correct the following mathematical sentences : $(3x)^2 + 4x + 7 = 3x^2 + 4x + 7$.

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99. Find the errors and correct the following mathematical sentences : $(2x)^2 + 5x = 4x + 5x = 9x$.

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100. Find the errors and correct the following mathematical sentences : $(2a+3)^2 = 2a^2+6a+9.$

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101. Substitute x=-3 in : $x^2+7x+12=$ $(-3)^2+7(-3)+12.$ = 9+4+12=25

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102. Substitute x=-3 in : $x^2-5x+6=$ $(-3)^2-5(-3)+6$=9-15+6=0

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103. Substitute x=-3 in : $x^2 + 5x - (-3)^2$+5 (-3)+6`

=-9-15=-24

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104. Find the errors and correct the following mathematical sentences : $(x-4)^2 = x^2 - 16.$

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105. Find the errors and correct the following mathematical sentences : $(x+7)^2 x^2 + 49.$

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106. Find the errors and correct the following mathematical sentences : (3a + 4b) (a - b) $3a^2 - 4a^2$.

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107. Find the errors and correct the following mathematical sentences : (x+4)(x+2) = x^2+8.

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108. Find the errors and correct the following mathematical sentences : $5x^3 \div 5x^3 = 0$.

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109. Find the errors and correct the following mathematical sentences : $2x^3 + 1 \div 2x^3 = 1$

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110. Find the errors and correct the following mathematical sentences : $3x + 2 \div 3x = \frac{2}{3x}$

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111. Find the errors and correct the following mathematical sentences : 3x + 5÷3=5

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112. Find the errors and correct the following mathematical sentences : $\frac{4x+3}{3}$ = x+1

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113. a^2 -2ab + b^2 = ___

A. $(a-b)^2$

B. $(a+b)^2$

C. a^2 - b^2

D. (a + b) (a - b)

Answer:

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114. $2 \times 2 \times 2 \times 2 \times 2 \times$ 3 is a prime factorisation of

A. 48

B. 72

C. 96

D. 84

Answer:

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115. Common factors of 6xy, $9y^2$

A. 3, y

B. 6, y^2

C. 3, y^2

D. 3, x, y

Answer:

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116. Factorise : $15a^3b - 35ab^3$

A. $5(a^3b - 7ab^3)$

B. $5ab\ (3a^2 - 7b^2)$

C. $5a^2b\ (3a^2 - 7`b\text{^}2)$

D. $5ab\ (3a^2 - 7b)$

Answer:

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117. Factorise : ax + ay + bx + by

A. (x + a) (y + b)

B. (x + y) (a + b)

C. (x + b) (y + a)

D. (xy + ab)

Answer:

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118. Factorisation of : x^2 + 10x + 25

A. (x + 5) (x + 5)

B. (x + 2) (x + 5)

C. (x + 5) (x + 3)

D. (x + 4) (x + 5)

Answer:

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119. $25p^2 - 49q^2$ = ____

A. $(5p + 7q)^2$

B. $(5p - 7q)^2$

C. (5p + 7q) (7q - 5p)

D. (5p + 7q) (5p - 7q)

Answer:

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120. (p + 4) (p - 4) (p^2 + 16) = ____

A. p^4 - 256

B. p^2 - 128

C. (5p + 7q) (5p -7q)

D. p^8 - 256

Answer:

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121. Factors of $x^2 + x(a + b) + ab$ = ...

A. (x + a) (x - b)

B. (x + a) (x + b)

C. p^2 - 256

D. (x - 3) (x + b)

Answer:

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122. $48a^2 + 243b^2$ = ____

A. 3 (4a + 9b) (4a - 9b)

B. 3 (4a + 9b)

C. (x - a) (x - b)

D. none

Answer:

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123. Factorise : $m^2 - 4m - 21.$

A. $(m+3)^2$

B. (m + 7) (m - 31)

C. 3 (3a + 4b) (4a - 9b)

D. (m - 7) (m + 3)

Answer:

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124. Factorise : $4x^2 + 20x - 96.$

A. (x + 8) (x - 3)

B. 4 (x + 8) (x - 3)

C. $(m-7)^2$

D. $(x-3)^2$

Answer:

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125. $70\frac{x^4}{14x^2}$ = ----

A. 5x

B. $5x^{-3}$

C. (x - 8) (x + 3)

D. $5x^2$

Answer:

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126. $\left(6a^2 + 30a\right) / (a + 5)` =$ ___

A. 6a

B. 3a

C. $\frac{x^2}{2}$

D. a

Answer:

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127. $\frac{6x^4 + 10x^3 + 8x^2}{2x^2}$ = ____

A. $3x^2$ - 5x + 1

B. $3x^2$ + 5x + 4

C. $\frac{a}{3}$

D. x^2 + 5x + 1

Answer:

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128. Divide $30\left(a^2bc + ab^2c + abc^2\right)$ by 6abc.

A. 5 (a + b + c)

B. 6 (a + b)

C. x^2 - 5x + 11

D. 3 (a - b)

Answer:

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129. Divide $x\left(3x^2 - 108\right)$ by 3x(x-6).

A. x - 3

B. 6 + x

C. a + b + c

D. 6 - x

Answer:

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130. $(\text{m}\hat{}2 - 14m - 32\frac{)}{m+2}$ = ---

A. m - 3

B. m + 6

C. x + 6

D. m - 16

Answer:

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131. Factorise : $16z^2 - 48z + 36.$

A. $4\left(2z - 3\right)^2$

B. $\left(2z - 3\right)^2$

C. m - 6

D. None

Answer:

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132. $3x^2 + 6x^2y + 9xy^2$ = ___

A. 3x (x - 2y)

B. 3 (2x + 3xy)

C. $(4z - 3)^2$

D. 3x (x + 2xy + $3y^2$)

Answer:

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133. $25a^2b + 35ab^2$ = ____

A. 5ab (5a + 7b)

B. 5ab (a - 2b)

C. 3x (x + y)

D. $5a^2b^2$ (a - b)

Answer:

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134. 6ab + 12b = ____

A. 6 (a + 2)

B. 6b (a + 2)

C. 5ab (a - b)

D. b (a -z)

Answer:

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135. Prime factorisation of 72 is__?

A. $2^3 \times 3^2$

B. $3^2 \times 2$

C. ab - 6

D. 8×16^2

Answer:

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136. $\frac{0}{36}(x-4)$ = _____

A. 0

B. 6

C. 3×9^2

D. 10

Answer:

Watch Video Solution

137. (x + 3) (x + 6) = ___

A. x^2 - 3x

B. x^2 + 9x + 18

C. x - 3x^2

D. None

Answer:

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138. $11xy^2z^3 \ / 55xyz =$ ___

A. A.) x / y^2

B. B.) $5z / x$

C. C.) y / z

D. D.) yz^2 /5

Answer:

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139. lx^2 + mx = ____

A. x^2 (m + x)

B. x (lx + m)

C. x + lm

D. l (x + m)

Answer:

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140. Expansion form of $(l-8)^2 =$ ____

A. A.) $l^2 - 16l + 64$

B. B.) $l^2 - 8l + 8$

C. C.) $l - 16l^2 + 0$

D. D.) $l^2 - 16$

Answer:

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141. The Value of 81^2 - 3^8 = ___

A. A.) 81

B. B.) 16

C. C.) 0

D. D.) 24

Answer:

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142. x^2 - 2 + $\frac{1}{x^2}$ = ____

A. $\left(x - 1 / x\right)^2$

B. $\left(1 // x - 3\right)^2$

C. $\left(3x - (1 / x)\right)^2$

D. None

Answer:

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143. The Value of $(a+b)^3 - 3ab(a+b) =$ ____

A. A.) $a^3 + b^3$

B. B.) $a^3 - b^3$

C. C.) $a - b^3$

D. D.) $3a - b$

Answer:

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144. The Value of $(8.47 \times 8.47 - 1.53 \times 1.53)$ $/6.94 =$ ___

A. A.) 16

B. B.) 10

C. C.) 30

D. D.) 11

Answer:

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145. $(3x - 2y)^2$ - $(3x - 2y)^2$ = ___

A. $2xy^2$

B. $7y^2$

C. $9x^2$

D. 0

Answer:

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146. 4x + 1 is a factor of ____

A. x^2-16

B. 16x - 3

C. 10x - 3

D. 16x^2 - 1

Answer:

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147. (2a + 1) $\left(\frac{1}{2a-1}, -\frac{2}{4a^2-1}\right)$ = ----

A. -1

B. -3

C. 1

D. 2

Answer:

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148. x^2 - 7 =

A. a) (x + 7) (x - 7)

B. b) (x + $\sqrt{7}$) (x - $\sqrt{7}$)

C. c) (x - 3) (x + 4)

D. d) None

Answer:

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149. $x + \frac{1}{x}$ = 6 then $x^2 + \frac{1}{x^2}$ = ___

A. 19

B. 16

C. 34

D. 10

Answer:

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150. x=2, $x^4 + (1/x^4)$`

A. 16.06

B. 257

C. 107

D. 192

Answer:

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151. a^4 - 81 =___

A. (a - 3) (a + 3) (a^2 + 9)

B. $(a-3)^2$ (a^2 + 1)

C. $(a-3)^4$ (a + 1)

D. None

Answer:

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152. $7a\ (5x - 3y) + 5b\ (5x - 3y) = \_\_\_$

A. $(5x - 3)\ (7a - 5)$

B. $(5x - 3y)\ (7a + 5b)$

C. $(5x - 3)\ (4x - 1)$

D. $(5x - y)\ (7x - 3)$

Answer:

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153. ar + br + at + bt = __

A. (r + t) (b + a)

B. (r - t) (r + a)

C. (r + t) (r + a)

D. (r - t) (a - b)

Answer:

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154. (6 + p + q) (6 -p - q) = ___

A. 36 - p^2 - q^2 - 2pq

B. 36 - 2p + q

C. 36 - 2p - 2q

D. 36 - p^2 - q^2

Answer:

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155. $9x^2$ - 256 = ___

A. $(3x + 16)^2$

B. (3x + 16) (3x - 16)

C. $(3x - 6)^2$

D. (x - 16) (3x - 1)

Answer:

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156. $(3a - b)^2$ - $9c^2$ = ____

A. (3a +b) (3c - b)

B. (3a - b + 3c) (3a - b - 3c)

C. $(3a - b - c)^2$

D. (3a - b - 3c) (a - b)

Answer:

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157. (8 + x) (14 -x) = ___

A. 121 - $(x-3)^2$

B. 12 - $(x-3)^2$

C. 12 - $(x-31)^2$

D. 11 - $(x-12)^2$

Answer:

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158. Factorise the following : $x^4 - y^4$.

A. $(x - y)^2$ - xy

B. (x + y) (x - y^2)

C. (x^2 + y^2) (x^2 - y^2)

D. (x + y^2) (x^2 + y)

Answer:

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159. (4x + 51y + 1) (4x + 51y - 1) ___

A. $(4x - 5y)^2$

B. $(4x - 5)^2$

C. $(3x - y)^2$

D. None

Answer:

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160. (x - y) / $\left(\sqrt{x} - \sqrt{y}\right)$ = ____

A. $\sqrt{x}$ + $\sqrt{y}$

B. $\sqrt{x}$ - y

C. x - $\sqrt{y}$

D. 1 - y

Answer:

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161. $(3001 / 6)^2$ - $(2999 / 6)^2$ = ___

A. $3331/3$

B. $3431/2$

C. $243\ \frac{1}{2}$

D. $712\ \frac{1}{2}$

Answer:

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162. $2^4 \times 3 =$ ____

A. 481

B. 48

C. 78

D. 92

Answer:

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163. 3 + 2(9) = ____

A. 11

B. 21

C. 16

D. 19

Answer:

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164. $2^5 \times 3$ = ___

A. 90

B. 31

C. 96

D. 69

Answer:

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165. Identify true statement.

A. $3(x - 1) = 7$

B. $3(x - 4) = 3x - 3$

C. $(x-1)^2 = 9$

D. x^2 - 3xy

Answer:

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166. $(x+8)^2 = x^2 +$ __ + 64

A. 6x

B. 4x

C. 16x

D. $\frac{x}{4}$

Answer:

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167. (b + 1) (3a + 2) = ____

A. 3ab - 2b + 1

B. 3ab - 2

C. 3ab + 2

D. 3ab + 3a + 2b + 2

Answer:

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168. $(a^2 + 5) + a^2 + 5 =$ ____

A. 4

B. 5

C. 1

D. 2

Answer:

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169. Common factors of 8x, 24 are

A. 1, 2, x

B. 2, 4, x

C. 2, 4, 8

D. 8, 4, 3

Answer:

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170. (m - n) (m + 4) = ___

A. m^2 - n

B. m^2 - mn + 4m - 4n

C. m + n^2

D. m^2 - 4mn + 1

Answer:

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171. t (u + at) = ___

A. ut + at^2

B. t + at^2

C. t - at^2

D. ut - t^2

Answer:

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172. (49x - 63) + 7 = ___

A. 7x + 1

B. 7x - 9

C. x + 3

D. x - 79

Answer:

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173. x - y = ____

A. x$\sqrt{y}$ - 1

B. ($\sqrt{x}$ - $\sqrt{y}$) ($\sqrt{x}$ + $\sqrt{y}$)

C. (x - $\sqrt{y}$) (x - $\sqrt{y}$)

D. $(\text{sqrt(x)} - y)^2$

Answer:

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174. a^2 - b^4 = ___

A. (a -b) (a - b^2)

B. (a + b) (a + 1)

C. (a - b) (a^2 - 1)

D. None

Answer:

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175. (x + 2) (x^2 + 5) = ___

A. x^3 + 2x^2 + 5x + 10

B. x^3 - x^2 - 5x + 1

C. x^3 - $7x^2$ + 3

D. x^3 - 3x + 7

Answer:

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176. $14x^3 + 42x^2$ = ____

A. $3/x$

B. $1/x$

C. $\frac{3}{x}$

D. $x/3$

Answer:

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177. If we divide x^2a - 1 by x^a - 1 we get ___

A. x - 1

B. x^a - 1

C. x + a

D. x^a + 1

Answer:

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178. If x^2 + $\left(\frac{1}{—}$x^2) = 62 then x + $\frac{1}{x}$ = ___ (x + $\frac{1}{x}$ $>$ 0)

A. 3

B. 8

C. 4

D. 6

Answer:

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179. x^4 - 1 + x -3 = ___

A. x^3 - 1

B. x + 1

C. $(x-2)^2$

D. None

Answer:

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180. $18a^2b^2\dfrac{c}{-6abc}$ = _____

A. - 3ab

B. - (ab/c)

C. abc^2

D. ab

Answer:

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181. The degree of a polynomial is 6 and the degree of other polynomial is 2 then the degree of the sum of the both polynomials is ____

A. 2

B. 4

C. 8

D. 6

Answer:

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182. $(9x^2 - 12x - 12) \div (3x+2) =$ ___

A. 3x + 1

B. 3x - 6

C. 6x - 1

D. 6x - 3

Answer:

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