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MATHS

BOOKS - KALYANI MATHS (ASSAMESE ENGLISH)

Co-ordinator Geometry

Exercise

1. Find the areas of the triangle whose vertics are

(4,4),(3,-2),(-3,16)

2. Find the area of the triangle whose vertices are

(5,2),(-9,-3),(-3,-5)

3. Find the areas of the triangle whose vertics are

(a,bc),(b,ca),(c,ab)

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4. Find the area of the quadrilateral whose vertices,taken in order,are (-4,-2),(-3,-5),(3,-2) and (2,3).

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5. Find the area of quadrilateral whose vertices taken in order are

(-5,-3),(-4,-6),(-2,-11),(1,2)

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6. Find the area of quadrilateral whose vertices taken in order are

(1,0),(5,3),(2,7),(-2,4)

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7. The co-ordinates of the vertices of ΔABC are A(4,1),B (-3,2) and C(o,k).Given area of

ΔABC =12 square unit.Find the value of k.

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8. If the vertices of a triangle are (1,k),(4,-3), (-9,7) and it's area is 15 square unit, find the value of k.

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9. A(0,0), B(6,0), C(4,3) and D(0,k) are the vertices of a quadrilateral ABCD .Find the value

of k if the area of quadrilateral is 14 sq.units.

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10. Prove that the points P,Q,R are collinear.

P(1,5) ,Q(3,14), R(-1,-4)

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11. Prove that the points P,Q,R are collinear.

P(1,4),Q(3,-2),R(-3,16)

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12. Prove that the points P,Q,R are collinear.

P(a, b+c), Q(b, c+a), R(c, a+b)

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13. If the points (a,1) ,(3,4) ,(5,5) are collinear find a.

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14. If (p+1 ,1),(2p+1 ,3), (2p+2, 2p) are collinear prove that,p= 2 or $-\frac{1}{2}$

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15. For what value of p the points (-5,1) , (1,p)and (4,-2) are collinear.

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16. For what value of p the points (2,1) , (p,-1)and (-1,3) are collinear.

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17. If the points (a,0), (0,b) and (1,1) are collinear,then find the relation between a and b.

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18. If the points (-3,9),(2,p),(4,-5)are collinear, prove that $p + 1 = 0$

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19. If the points (8,1),(3,-4),(2,p) are collinear, prove that $p + 5 = 0$

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20. If the points (p,0), (0,q)and (x,y) are collinear, prove that $\frac{x}{p}+\frac{y}{q}=1$.

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21. If D,E,F are the middle points of sides BC,CA,AB respectively of a triangle whose vertices are A(-1,5) ,B(3,1) ,C(5,7). show that, ΔABC =4ΔDEF

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22. The vertices of ΔABC areA(2,3),B(4,-1)and C(1,2),Find the length of the perpendicular AD on BC.

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23. The co-ordinates of A,B,C,D are A(6,3),B(-3,5),C(4,-2)and D(x,3x) respectively and $\frac{Area(\Delta DBC)}{Area(\Delta ABC)} = \frac{1}{2}$,find x.

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24. Write the distance between (0,0) and (3,4).

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25. Find the distance between following pair of points: $(a\cos\theta, a\sin\theta), (0, 0)$

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26. Write the mid-point of (a,0),(-a,-b)

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27. If the points (a,0), (0,b) and (1,1) are collinear,then find the value of $\frac{1}{a}+\frac{1}{b}$

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28. The mid-point of the line joining the points (-6,5)and (-2,3) is $-\left(\frac{a}{3}, 4\right)$.Find a.

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29. Fill in the blank

The co-ordinates of any point on x-axis are in the form _____.

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30. Fill in the blank

The co-ordinates of any point on y-axis are in the form _____.

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31. Fill in the blank

The distance of the point (a,b) from the origin is_____.

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32. What is the co-ordinate of origin?

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33. Fill in the blank

If three points are collinear,the area of the triangle form is_____.

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34. If three consecutive vertices of a parallelogram ABCD are A(1,-2),B(3,6),C(5,10), then find the fourth vertex D.

A. (2,3)

B. (3,2)

C. (-3,-2)

D. (-2,-3)

Answer:

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35. The distance of the point (-a,b)from origin is,

A. $\sqrt{b^2 - a^2}$

B. $\sqrt{a^2 + b^2}$

C. b-a

D. None

Answer:

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36. The points (0,0),(-2,0),(3,0)

A. are collinear

B. lie on x-axis

C. lie on y-axis

D. none

Answer:

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37. In what ratio does the point P(1,2) divides the joint of A(-2,1),and B(7,4).

A. $1:2$

B. $2:3$

C. $3:2$

D. $2:1$

Answer:

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38. In what ratio the x-axis divides the joints of P(-4,2)and Q(8,3)

A. $2:3$

B. $3:2$

C. $-2:3$

D. $-3:2$

Answer:

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