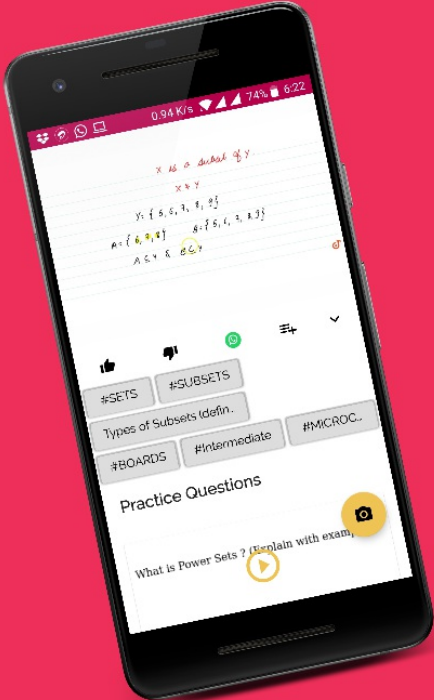


| Ques No. | Question                                                                                                                                                                                                                                                                                                               |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.1 - Q 1</b></p> <p>The graphs of <math>y = p(x)</math> are given in Figure below, for some polynomials <math>p(x)</math>. Find the number of zeroes of <math>p(x)</math>, in each case.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> |
| 2        | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1</b></p> <p>Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients <math>t^2 - 15</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                     |
| 3        | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1</b></p> <p>Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients <math>4u^2 + 8u</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                    |
| 4        | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1</b></p> <p>Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients <math>3x^2 - x - 4</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                 |
| 5        | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1</b></p> <p>Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients <math>x^2 - 2x - 8</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                 |
|          |                                                                                                                                                                                                                                                                                                                        |

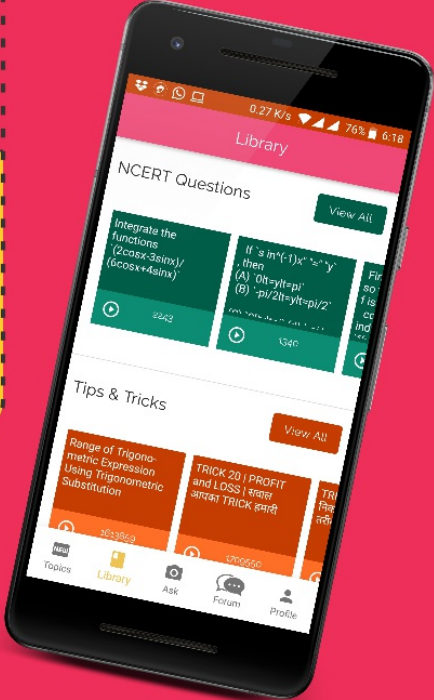


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6

NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1

Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients  $6x^2 - 3 - 7x$

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NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1

Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients  $4s^2 - 4s + 1$

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NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1

Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients. - (i)  $x^2 - 2x - 8$  (ii)  $4s^2 - 4s + 1$  (iii)  $6x^2 - 3 - 7x$  (iv)  $4u^2 + 8u$  (v)  $t^2 - 15$  (vi)  $3x^2 - x - 4$

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NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1

Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively. (iv) 1, 1 (v)  $-\frac{1}{4}, \frac{1}{4}$  (vi) 4, 1

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10

NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.2 - Q 1

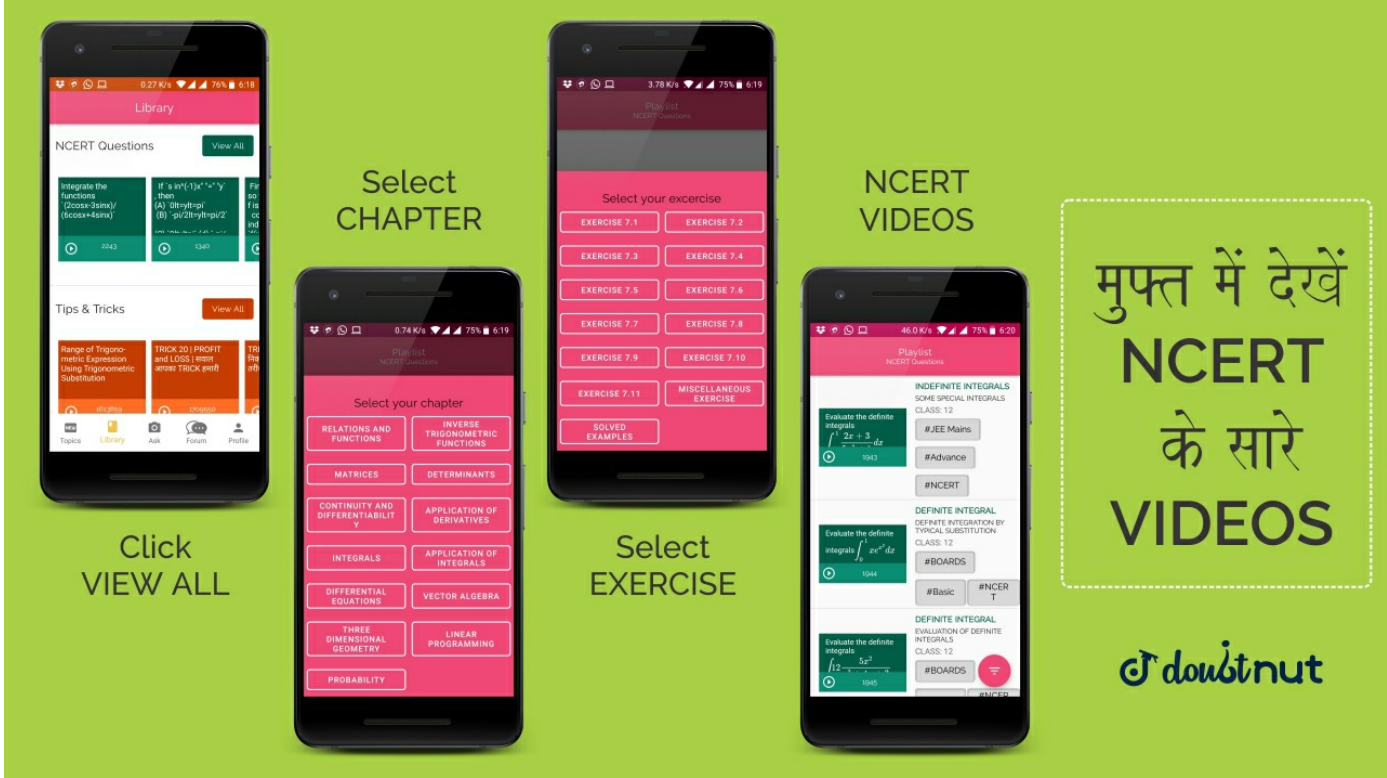
Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively. (i)  $\frac{1}{4}, -1$  (ii)  $\sqrt{2}, \frac{1}{3}$  (iii) 0,  $\sqrt{5}$  (iv) 1, 1 (v)  $-\frac{1}{4}, \frac{1}{4}$  (vi) 4, 1

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|    |                                                                                                                                                                                                                                                                                                                                                   |
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|    |                                                                                                                                                                                                                                                                                                                                                   |
| 11 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 1</b></p> <p>Divide the polynomial <math>p(x)</math> by the polynomial <math>g(x)</math> and find the quotient and remainder in each of the following :</p> $p(x) = x^3 - 3x^2$ $+ 5x - 3, g(x)$ $= x^2 - 2$ <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>     |
|    |                                                                                                                                                                                                                                                                                                                                                   |
| 12 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 1</b></p> <p>Divide the polynomial <math>p(x)</math> by the polynomial <math>g(x)</math> and find the quotient and remainder in each of the following :</p> $p(x) = x^4 - 3x^2$ $+ 4x + 5, g(x)$ $= x^2 + 1 - x$ <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> |
| 13 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 1</b></p> <p>Divide the polynomial <math>p(x)</math> by the polynomial <math>g(x)</math> and find the quotient and remainder in each of the following : <math>p(x) = x^4 - 5x + 6, g(x) = 2 - x^2</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>     |
| 14 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 2</b></p> <p>Check whether the first polynomial is a factor of the second polynomial by dividing the second polynomial by the first polynomial :</p> $t^2 - 3, 2t^4 + 3t^3$ $- 2t^2 - 9t - 12$                                                                                  |

|                                                                                    |                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                    | <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                                                                                                                                                                                    |
| 15                                                                                 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 2</b></p> <p>Check whether the first polynomial is a factor of the second polynomial by dividing the second polynomial by the first polynomial :</p> $x^3 - 3x + 1, x^5 - 4x^3 + x^2 + 3x + 1$ <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>   |
| 16                                                                                 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 2</b></p> <p>Check whether the first polynomial is a factor of the second polynomial by dividing the second polynomial by the first polynomial :</p> $x^2 + 3x + 1, 3x^4 + 5x^3 - 7x^2 + 2x + 2$ <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> |
| 17                                                                                 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 3</b></p> <p>Obtain all other zeroes of <math>3x^4 + 6x^3 - 2x^2 - 10x - 5</math> , if two of its zeroes are <math>\sqrt{\frac{5}{3}}</math> and <math>-\sqrt{\frac{5}{3}}</math> .</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>          |
|  |                                                                                                                                                                                                                                               |
|                                                                                    | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 4</b></p>                                                                                                                                                                                                                                                       |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 | <p>On dividing <math>x^3 - 3x^2 + x + 2</math> by a polynomial the quotient and remainder were <math>x-2</math> and <math>-2x + 4</math> , respectively. Find g(x).</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                                                                                                                                           |
| 19 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.3 - Q 5</b></p> <p>Give examples of polynomials p(x), g(x), g(x) and r(x), which satisfy the division algorithm and (i) <math>deg p(x) = deg q(x)</math> (ii) <math>deg q(x) = deg r(x)</math> (iii) <math>deg r(x) = 0</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                    |
| 20 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.4 - Q 1</b></p> <p>Verify that the numbers given alongside of the cubic polynomials below are their zeroes. Also verify the relationship between the zeroes and the coefficients in each case: (i) <math>2x^3 + x^2 - 5x + 2</math>; <math>\frac{1}{2}, 1, -2</math> (ii) <math>x^3 - 4x^2 + 5x - 2</math>; <math>-2, 1, 1</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> |
| 21 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.4 - Q 2</b></p> <p>Find a cubic polynomial with the sum, sum of the product of its zeroes taken two at a time, and the product of its zeroes as <math>2, -7, -14</math> respectively.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                                                             |
| 22 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.4 - Q 3</b></p> <p>If the zeroes of the polynomial <math>x^3 - 3x^2 + x + 1</math> are <math>a-b, a, a+b</math> , find a and b.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                                                                                                                   |
| 23 | <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.4 - Q 4</b></p> <p>If two zeroes of the polynomial <math>x^4 - 6x^3 - 26x^2 + 138x - 35</math> are <math>2 \pm \sqrt{3}</math> , find other zeroes.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>                                                                                                                                                                               |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <div>  <p>पढ़ना हुआ आसान</p> </div> | <div>  </div>                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div> <p>24</p> </div>                                                                                              | <div> <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - EXERCISE 2.4 - Q 5</b></p> </div> <div> <p>If the polynomial <math>x^4 - 6x^3 + 16x^2 - 25x + 10</math> is divided by another polynomial <math>x^2 - 2x + k</math>, the remainder comes out to be <math>x + a</math>. find k and a.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div> |
| <div> <p>25</p> </div>                                                                                              | <div> <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 1</b></p> </div> <div> <p>Look at the graphs in Figure given below. Each is the graph of <math>y = p(x)</math>, where p(x) is a polynomial. For each of the graphs, find the number of zeroes of p(x).</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>       |
| <div> <p>26</p> </div>                                                                                              | <div> <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 2</b></p> </div> <div> <p>Find the zeroes of the quadratic polynomial <math>x^2 + 7x + 10</math>, and verify the relationship between the zeroes and the coefficients.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                       |
| <div> <p>27</p> </div>                                                                                              | <div> <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 3</b></p> </div> <div> <p>Find the zeroes of the polynomial <math>x^2 - 3</math> and verify the relationship between the zeroes and the coefficients.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                        |
| <div> <p>28</p> </div>                                                                                              | <div> <p><b>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 4</b></p> </div> <div> <p>Find a quadratic polynomial, the sum and product of whose zeroes are <math>-3</math> and <math>2</math>, respectively.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                             |

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| <div> <p>29</p> </div>   | <div> <p>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 5</p> </div> <div> <p>Verify that <math>3, \sqrt{1}, -\frac{1}{3}</math> are the zeroes of the cubic polynomial</p> </div> <div> <math display="block">p(x) = 3x^3 - 5x^2 - 11x - 3</math> </div> <div> <p>, and then verify the relationship between the zeroes and the coefficients.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div> |
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| <div> <p>30</p> </div> | <div> <p>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 6</p> </div> <div> <p>Divide <math>2x^2 + 3x + 1</math> by <math>x + 2</math></p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                                                                                                                                                                                                                                                                         |
| <div> <p>31</p> </div> | <div> <p>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 7</p> </div> <div> <p>Divide <math>3x^3 + x^2 + 2x + 5</math> by <math>1 + 2x + x^2</math>.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                                                                                                                                                                                                                                                           |
| <div> <p>32</p> </div> | <div> <p>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 8</p> </div> <div> <p>Divide <math>3x^2 + x^3 - 3x + 5</math> by <math>x - 1 - x^2</math>, and verify the division algorithm.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                                                                                                                                                                                                                         |
| <div> <p>33</p> </div> | <div> <p>NCERT - CLASS 10 - CHAPTER 2 POLYNOMIALS - SOLVED EXAMPLES - Q 9</p> </div> <div> <p>Find all the zeroes of <math>2x^4 - 3x^3 - 3x^2 + 6x - 2</math></p> </div> <div> <p>, if you know that two of its zeroes are <math>\sqrt{2}</math> and <math>-\sqrt{2}</math>.</p> </div> <div> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p> </div>                                                                                                                                  |

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