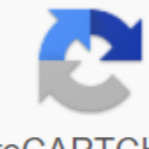


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## Finding roots of polynomials worksheet

In this worksheet we will practice finding the number and type of roots of polynomials and finding unknown coefficients if the roots are given. (1) Find the value of polynomial  $f(y) = 6y - 3y^2 + 3$  at (i)  $y = 1$  (ii)  $y = -1$  (iii)  $y = 0$  Solution (2) If  $p(x) = x^2 - 2\sqrt{2}x + 1$ , find  $\frac{p(x)}{x^2 - 2\sqrt{2}x + 1}$  Solution (3) Find the zeros in the polynomial in each of the following : (i)  $p(x) = x - 3$  (ii)  $p(x) = 2x + 5$  (iii)  $q(y) = 2y - 3$  (iv)  $f(z) = 8z$  (v)  $p(x) = ax$ , when  $a \neq 0$  (vi)  $h(x) = ax + b$ ,  $a \neq 0$ ,  $a, b \in \mathbb{R}$  Solution (4) Find the roots of the polynomial equations. (i)  $5x - 6 = 0$  (ii)  $x + 3 = 0$  (iii)  $10x + 9 = 0$  (iv)  $9x - 4 = 0$  Solution (5) Check whether the following are zeros of the polynomial indicated against them or not. (i)  $p(x) = 2x - 1$ ,  $x = 1/2$  (ii)  $p(x) = x^3 - 1$ ,  $x = 1$  (iii)  $p(x) = ax + b$ ,  $x = -b/a$  (iv)  $p(x) = (x + 3)(x - 4)$ ,  $x = 4$ ,  $x = -3$  Solution (6) Find the number of zeros of the following polynomials represented by the graphs. (i) (ii) (iii) (iv) (v) Solution Except for things given above, if you need other things in mathematics, you can use our google custom search here. If you have feedback about our math content, please email us: [vk4formath@gmail.com](mailto:vk4formath@gmail.com) We always appreciate your feedback. You can also visit the following websites on different things in mathematics. 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Related Topics: More Lessons for ACT Math Math Worksheets Examples, Solutions, Videos, Games, Activities and Spreadsheets to Help ACT Students Review The Roots of Polynomials. How to find the roots of polynomials also called zeros of polynomials? 1. If polynomial has rational roots, these roots will be fractions of a factor of the constant term shared by the leading coefficient (plus or minus). 2. Use synthetic division or long division to find what binomials possibly go into polynomials to find the zeros. How to solve the roots of polynomials Find zeros of a third degree polynomial. Finding all zeros of a polynomial - Example 1 This video shows how to find the remaining zeros of a polynomial given some known zeros. Show step-by-step solutions Find all the zeros of a polynomial - example 2 This video uses rational roots test to find all possible rational roots; after finding one it uses long division to factor, and then repeat. 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