Factoring 4th degree polynomials worksheet

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To factor a polynomial of degree 3 or more, we can use synthetic division method.In this method, we will find the factors of a polynomial by trial and error. To learn synthetic division step by step, click here. Example 1 :Factor the following polynomial given that the product of two of the zeros is 8.x4 + 2x3 - 25x2 - 26x + 120 Solution :Because the product two of the zeros is 8, we can try 2 and 4 in synthetic division. x = 2 and x = 4 are the two zeros of the given polynomial of degree 4.Because x = 2 and x = 4 are the two zeros of the given polynomial, the two factors are (x - 2) and (x - 4). To find other factors, factor the quadratic expression which has the coefficients 1, 8 and 15. That is, x2 + 8x + 15.x2 + 8x + 15 = (x - 3)(x + 5)So, the factors of the given polynomial are (x - 2), (x - 4), (x + 3) and (x + 5)Example 2 :Factor : x4 - 10x3 + 37x2 - 60x + 36Solution :By trial and error, we can check whether 1 is a zero of the above polynomial. Because the remainder is 4 (not zero), 1 is not a zero of the given polynomial. Now, let us check with -1. Because the remainder is 24 (not zero), -1 is not a zero of the given polynomial.Now, let us check with 2. Both x = 2 and x = 3 are the two zeros of the given polynomial.Because x = 2 and x = 3 are the two zeros of the given polynomial, the two factors are (x - 2) and (x - 3). To find other factors, factor the quadratic expression which has the coefficients 1, -5 and 6.That is, x2 - 5x + 6.x2 - 5x + 6 = (x - 2)(x - 3)So, the factors of the given polynomial are (x - 2), (x - 3), (x - 2) and (x - 3) Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com To factor a polynomial of degree 3 or more, we can use synthetic division method.In this method, we will find the factors of a polynomial by trial and error. To learn synthetic division step by step, click here. Example 1 :Factor the following polynomial given that the product of two of the zeros is 8.x4 + 2x3 - 25x2 - 26x + 120 Solution :Because the product two of the zeros is 8, we can try 2 and 4 in synthetic division. x = 2 and x = 4 are the two zeros of the given polynomial of degree 4.Because x = 2 and x = 4 are the two zeros of the given polynomial, the two factors are (x - 2) and (x - 4). To find other factors, factor the quadratic expression which has the coefficients 1, 8 and 15. That is, x2 + 8x + 15.x2 + 8x + 15 = (x + 3)(x + 5)So, the factors of the given polynomial are (x - 2), (x - 4), (x + 3) and (x + 5)Example 2 :Factor : x4 - 10x3 + 37x2 - 60x + 36Solution :By trial and error, we can check whether 1 is a zero of the above polynomial. Because the remainder is 4 (not zero), 1 is not a zero of the given polynomial. Now, let us check with -1. Because the remainder is 24 (not zero), -1 is not a zero of the given polynomial.Now, let us check with 2. Both x = 2 and x = 3 are the two zeros of the given polynomial.Because x = 2 and x = 3 are the two zeros of the given polynomial, the two factors are (x - 2) and (x - 3). To find other factors, factor the quadratic expression which has the coefficients 1, -5 and 6.That is, x2 - 5x + 6.x2 - 5x + 6 = (x - 2)(x - 3)So, the factors of the given polynomial are (x - 2), (x - 3), (x - 2) and (x - 3) Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com

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