Math Virtual Learning

College Algebra

April 16, 2020

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Lesson: April 16, 2020

Objective/Learning Target:
Students will be able
to solve higher order polynomials.

Warm Up Activity on Khan Academy:

1) Watch Remainder Theorem Video

2) Graphing Examples of the Remainder Theorem

3) Work the Interactive Problems using the Remainder Theorem

Lesson:

Click on the links below and follow along with the lessons. We encourage you to have your own sheet of paper out and solve the guided practice problems with the teacher in the video.

Zeros of a Polynomial - watch to 24:06

Practice: Find the roots (zeros) of the given polynomials on your own paper.

$$1) \; x^4 + x^3 + 7x^2 + 9x - 18 \qquad\qquad 2) \; 2x^3 + 7x^2 - 3x - 18$$

$$3) \; 2x^3 + 4x^2 - 6x \qquad\qquad\qquad 4) \; 2x^3 - x^2 - 8x + 4$$

Online Practice with Answers

Practice Answers:

1) X = -3, -2, 1, 3

2) $x = -3, -2, \frac{1}{2}$

3) x = -3, 0, 1

4) $x = -2, \frac{1}{2}, 2$

Online Practice with Answers

Additional Practice:

If you would like more equations to practice, here is a link to extra practice and examples.

Work Problems 27,29,30,31 -- scroll down for answers
Work Problem 43,44 -- scroll down for answers
Work Problems 4,5,46,47,51 -- scroll down for answers