Bellwork Alg 2A Monday, May 1, 2017

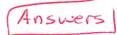
1. Use this equation: $x^4 + 3x^3 + x^2 + 15x - 20 = 0$

Find all four Complex Solutions (real and imaginary) by doing the following:

- a. Find all real solutions by graphing then,
- b. Use the real zeros to find the remaining imaginary solutions using polynomial division.

2. Are -3 and 2 zeros of the following function? $y = x^3 + 8x^2 + x - 42$

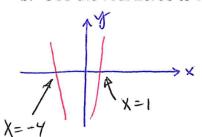
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factors are
$$x_{+4} \stackrel{.}{=} x_{-1}$$

 $(x_{+4})(x_{-1})(x_{-1}) = 0$
 $(x_{-1})(x_{-1}) \stackrel{.}{=} x_{-1}$

2. Are -3 and 2 zeros of the following function? $y = x^3 + 8x^2 + x - 42 = f(x)$

$$f(-3) = 0$$
 Yes, -3 is a zero
 $f(2) = 0$ Yes, 2 is a zero