Bellwork Hon Alg 2 Monday, December 19, 2016

1. Graph this polynomial and state all Absolute and Relative Extrema, if any. Round to the nearest hundredth.

$$y = -0.1x^4 - x^3 - 2x^2 + 4x + 6$$

2. Find all Complex zeros, real and imaginary, by factoring.

a)
$$y = 2x^3 - x^2 + 18x - 9$$

b)
$$y = 6x^7 - 30x^5 + 24x^3$$

Find all real solutions by graphing. Round to the nearest hundredth.

$$-x^3 + 26x^2 = 19x + 149.7$$

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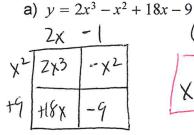
Answers

1. Graph this polynomial and state all Absolute and Relative Extrema, if any. Round to the nearest hundredth.

$$y = -0.1x^4 - x^3 - 2x^2 + 4x + 6$$

ABS MAX: (.65, 7.46) Rel Max: (-5.21, -1.39)

2. Find all Complex zeros, real and imaginary, by factoring.



$$(2x-1)(x^2+9)=6$$

 $X = \frac{1}{2}, \pm 3i$

3. Find all real solutions by graphing. Round to the nearest hundredth.

 $-x^3 + 26x^2 = 19x + 149.7$ X=-2.06,3.00, 25.00

