Algebra 2 Bellwork Monday, December 1, 2014

1. Sketch the graph of this polynomial: $y = -x^3(x+4)(x-5)^2(x+2)^2(x-7)$

2. Find all extrema and zeros of this function. Round to the nearest hundredth.

$y = x^4 + x^3 - 5x^2 - 2x + 7$

Absolute Max: Absolute Min:

Relative Max: Relative Min:

Zeros:

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ANSWERS

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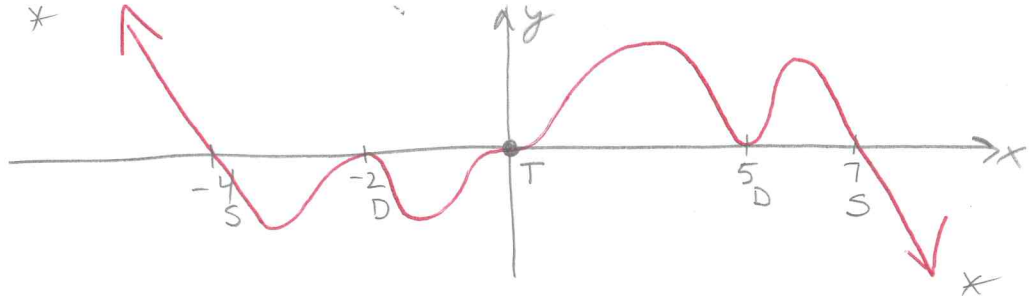
1. Sketch the graph of this polynomial: $y = -x^3(x+4)(x-5)^2(x+2)^2(x-7)$



2. Find all extrema and zeros of this function. Round to the nearest hundredth.

$y = x^4 + x^3 - 5x^2 - 2x + 7$

Absolute Max: NONE Absolute Min: -1.08

Relative Max: 7.19 Relative Min: 0.97

Zeros: -2.20, -1.57