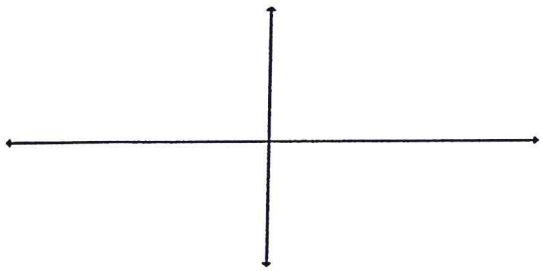
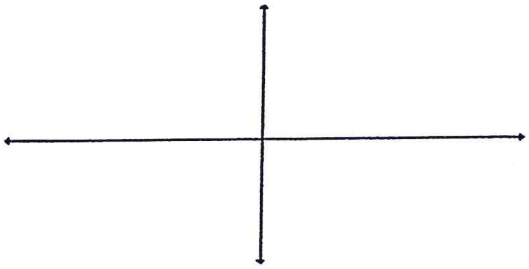
Bellwork Alg 2A Thursday, April 13, 2017

1. Sketch the graph of each function showing the proper end behavior and shape of each zero. Make sure you number the zeros so that I know they are correct.

a) $f(x) = -x^2(2x-3)(x+4)^2(6-x)^3$

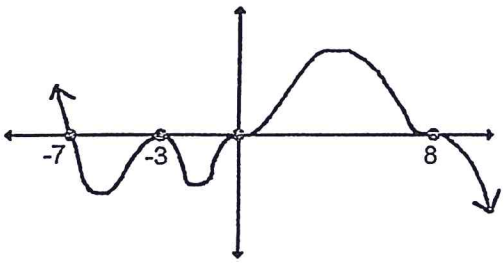


b) $y = (x+8)^3(x-5)x(3-x)^2$

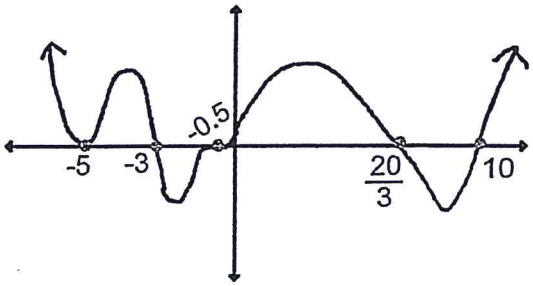


2. Write possible equations for each polynomial.

a)



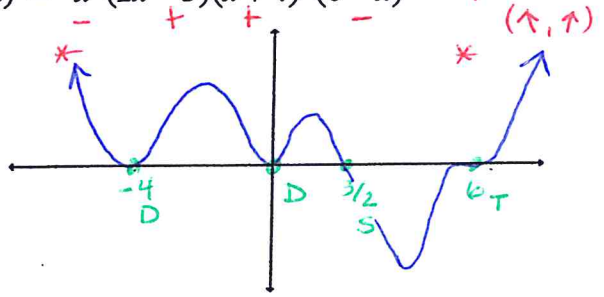
b)



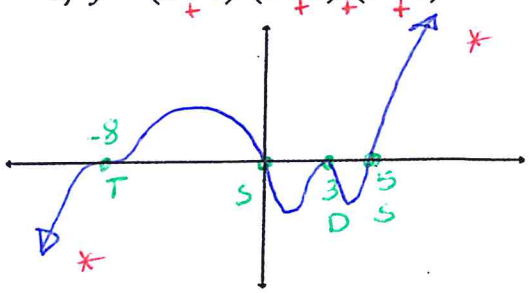
Bellwork Alg 2A Thursday, April 13, 2017 Answers

1. Sketch the graph of each function showing the proper end behavior and shape of each zero. Make sure you number the zeros so that I know they are correct.

a) $f(x) = -x^2(2x-3)(x+4)^2(6-x)^3$ POS EVEN (↑,↑)

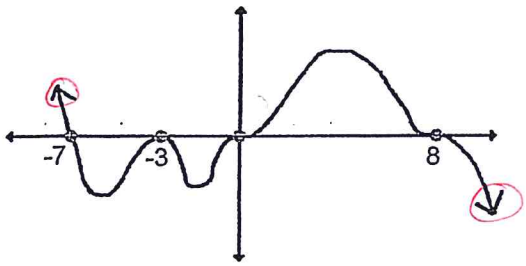


b) $y = (x+8)^3(x-5)x(3-x)^2$ POS ODD (↓,↑)



2. Write possible equations for each polynomial.

a) $y = -x^3(x+7)(x+3)^2(x-8)^3$



Neg ODD

b) $y = (x+5)^2(x+3)(2x+1)^3(3x-20)(x-10)$ POS even