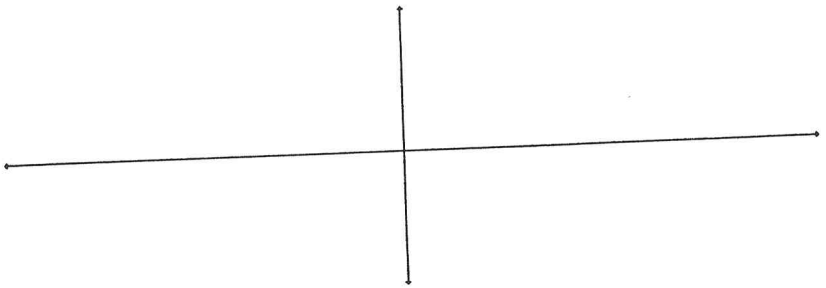
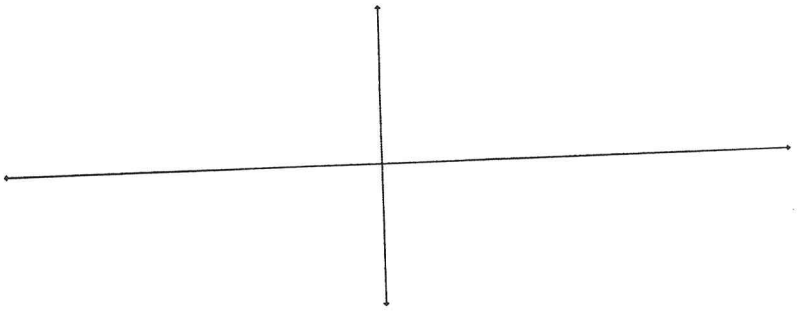
Algebra 2 Bellwork Tuesday, November 25, 2014

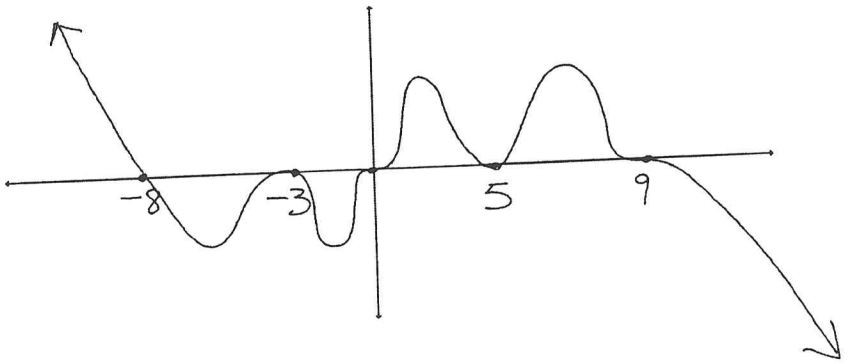
1. Sketch this function using the shapes of the zeros and the end behavior. $y = (4 - x)^3(x + 3)^2(x + 1)$



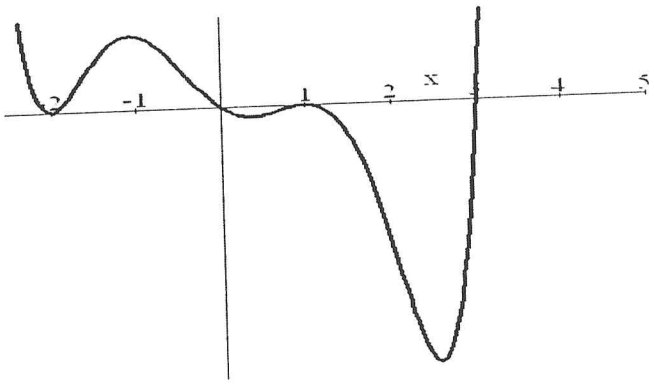
2. Sketch this function using the shapes of the zeros and the end behavior. $y = x^2(x + 6)^2(x - 7)^3(x + 3)^2$



3. Write a possible equation for the function shown in this graph.



4. Write a possible equation for the function shown in this graph.



ANSWERS

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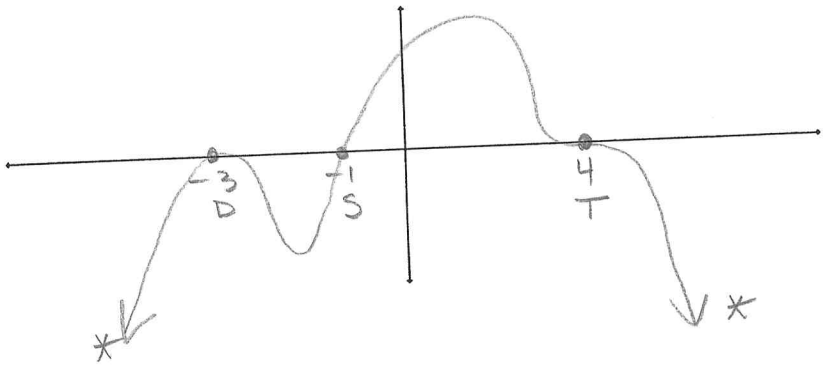
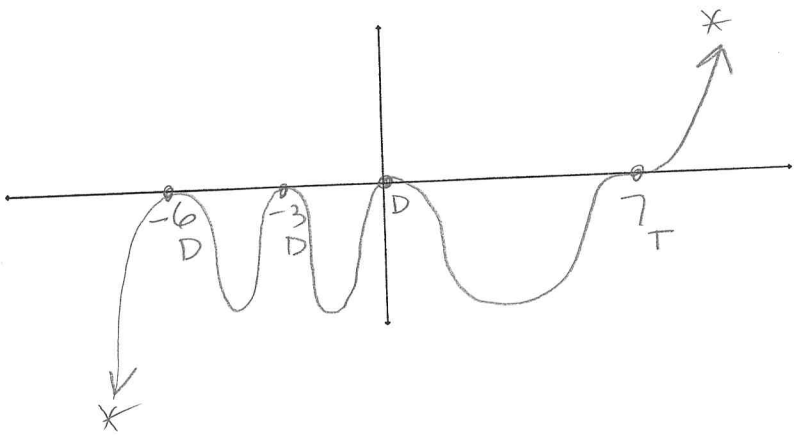
NEG EVEN

1. Sketch this function using the shapes of the zeros and the end behavior. $y = (4 - x)^3(x + 3)^2(x + 1)$



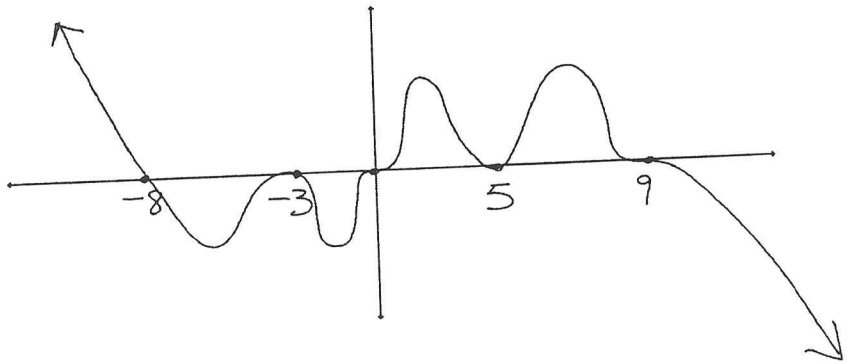
2. Sketch this function using the shapes of the zeros and the end behavior. $y = x^2(x + 6)^2(x - 7)^3(x + 3)^2$

POS ODD



3. Write a possible equation for the function shown in this graph.

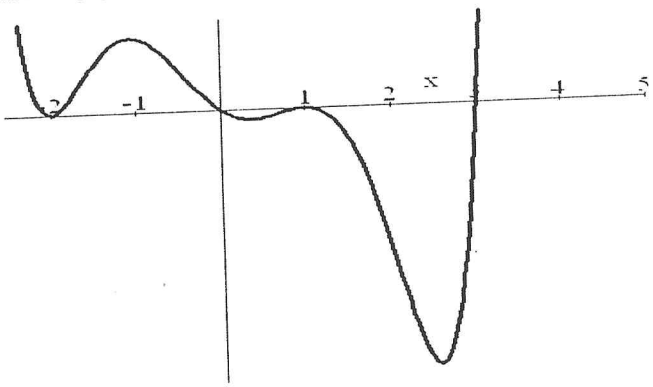
NEG ODD



$y = -x^3(x+8)(x+3)^2(x-5)^2(x-9)^3$

4. Write a possible equation for the function shown in this graph.

POS EVEN



$y = x(x+2)^2(x-1)^2(x-3)$