

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

$$f(x) = -2(x - 4)(x + 1)(x - 2)$$

x-intercepts:

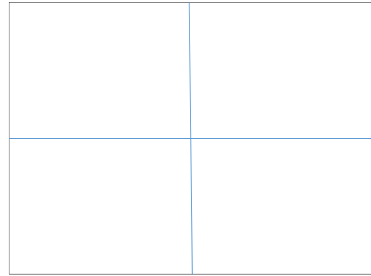
multiplicities?

Number of Directions:

R.E.B.:

L.E.B.:

y-intercept:



Check with your calculator.

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

$$f(x) = \frac{1}{3}(x - 6)(x - 1)(x + 3)(x - 3)$$

x-intercepts:

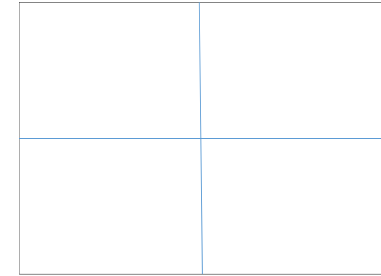
multiplicities?

Number of Directions:

R.E.B.:

L.E.B.:

y-intercept:



Check with your calculator.

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

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

x-intercepts:

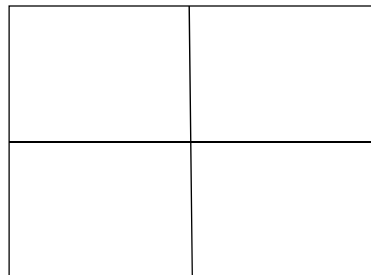
multiplicities?

Number of Directions:

R.E.B.:

L.E.B.:

y-intercept:



Check with your calculator.

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

$$f(x) = \frac{3}{4}x(x + 4)(x - 2)(x - 5)$$

x-intercepts:

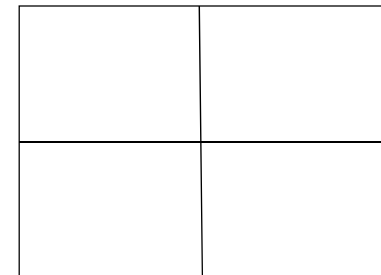
multiplicities?

Number of Directions:

R.E.B.:

L.E.B.:

y-intercept:



Check with your calculator.

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

$$f(x) = (x + 3)^2(x + 1)^3$$

x-intercepts:

multiplicities?

Number of Directions:

R.E.B.:

L.E.B.:

y-intercept:

Check with your calculator.

WITHOUT USING THE CALCULATOR... sketch a graph of the function.

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

x-intercepts:

multiplicities?

Number of Directions:

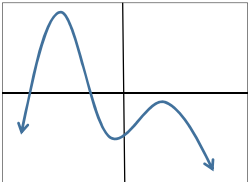
R.E.B.:

L.E.B.:

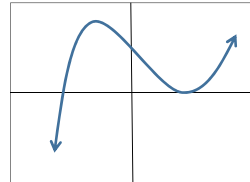
y-intercept:

Check with your calculator.

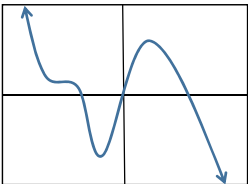
Determine the most likely degree for each polynomial.



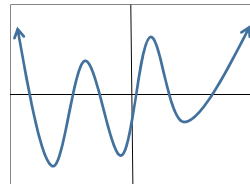
Deg: ___



Deg: ___



Deg: ___



Deg: ___

Find the x-intercepts, right end behavior, and y-intercept to write the equation for the function.

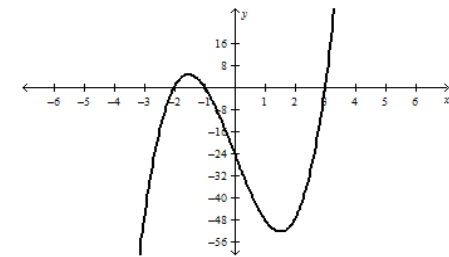
x-intercepts: ____, ____, ____

Factors: (____)(____)(____)

y-intercept: ____

Plug in: ____ = a (____)(____)(____)

Solve for a:



So $a =$ ____

Equation: $y =$ _____