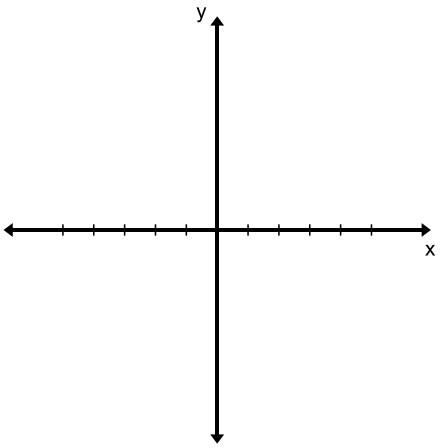
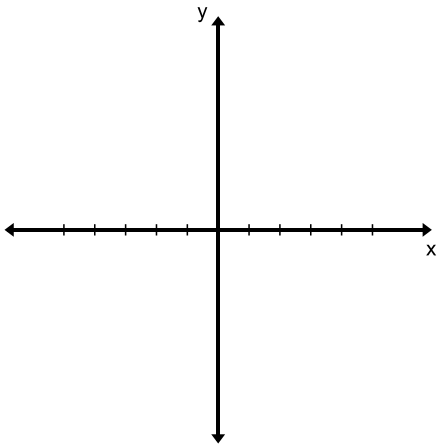
F & T Name _____
Polynomial Graphs HW

WITHOUT a calculator, sketch the following equations.

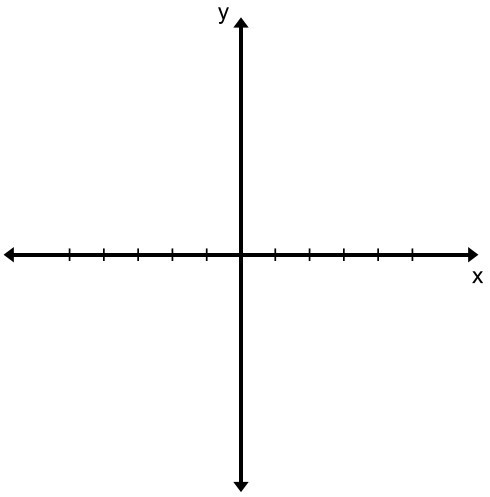
1.) $y = -(x-2)(x-4)$



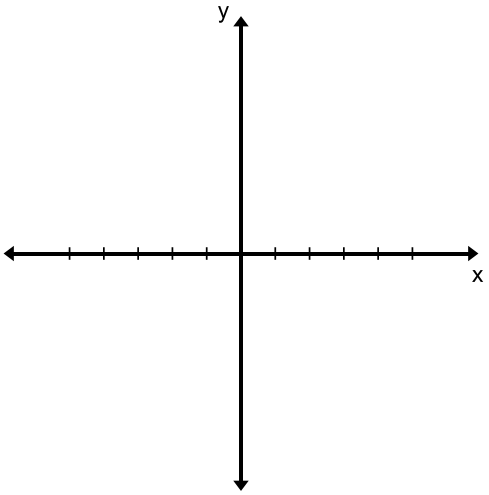
2.) $y = -x(x-3)$



3.) $f(x) = x(x+3)(x-2)(x-5)$

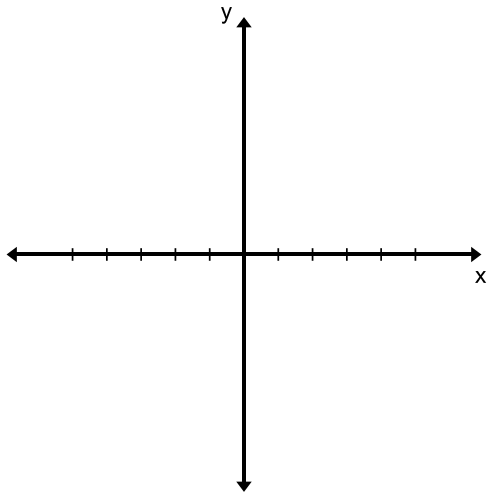


4.) $y = -x(x-2)(x+4)$

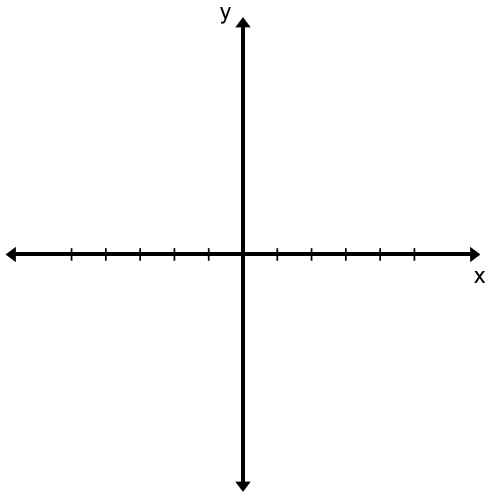


WITHOUT a calculator, sketch the following equations.

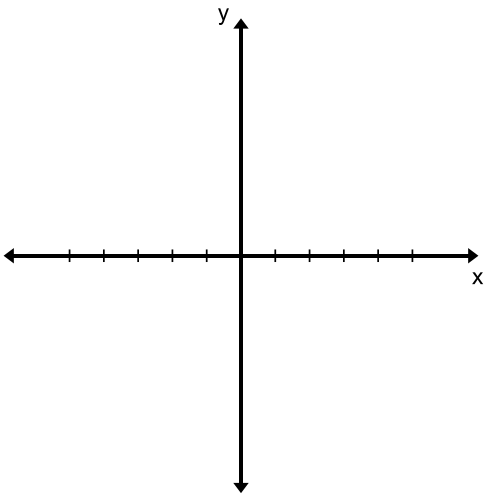
5.) $y = x(x-4)(x+3)(x+1)$



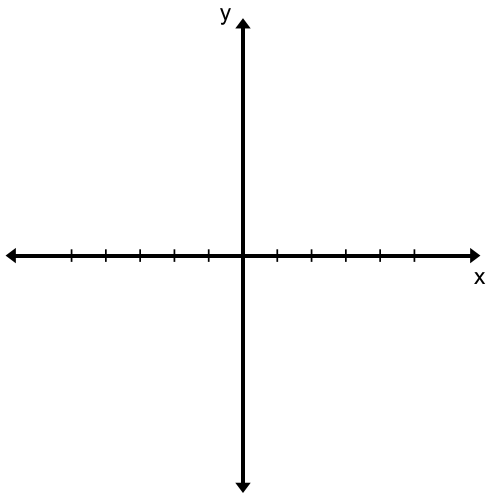
6.) Sketch a polynomial with zero's -3 , -1 , 2.



7.) $y = -x(x-2)(x-1)(x+5)$

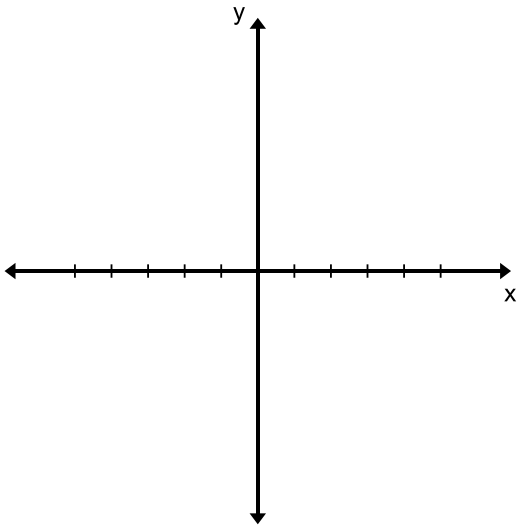


8.) Sketch a polynomial with zero's 0 , 2 , 5.

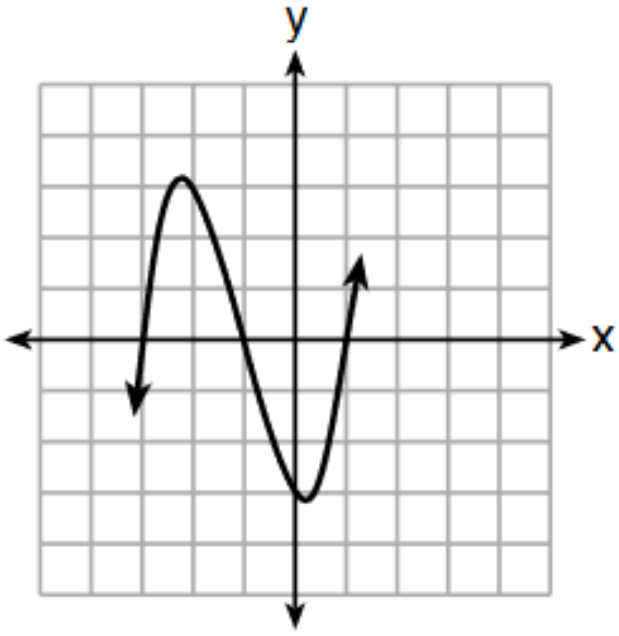


WITHOUT a calculator, sketch the following equations.

9.) $y = x^3 + 4x^2 - 5x$



10.) A cubic function is graphed on the set of axes.



Which function could represent this graph?

(a) $f(x) = (x-3)(x-1)(x+1)$

(b) $g(x) = (x+3)(x+1)(x-1)$

(c) $h(x) = (x-3)(x-1)(x+3)$

(d) $k(x) = (x+3)(x+1)(x-3)$