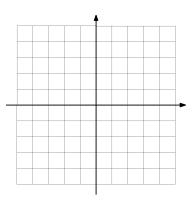
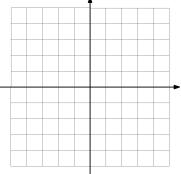
1. After factoring, sketch the graph of the equation $y = -x^3 + 2x^2 - x$. Remember to look for common terms.



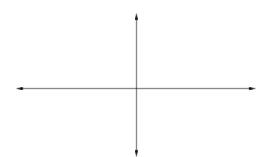
2. Sketch the graph of the equation with a double root at -2, a single root at 5, a triple root at 0 and a double root at 2. Assume the leading coefficient is negative. Write the equation of the function that describes the graph.

Equation:



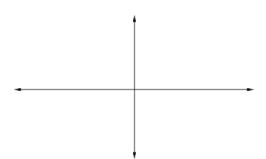
Sketch the graph of each function.

7.
$$f(x) = (x + 1)(x - 2)(x - 4)$$

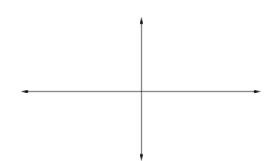


8.
$$f(x) = -(x+3)(x+2)(x-1)^3$$

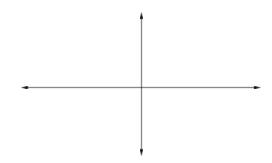
9.
$$f(x) = -x(x+5)^2(x+3)$$



10. $f(x) = x^5-3x^4-x^3+3x^2$ Given that f(-1)=f(1)=0



11. $f(x) = -x^5 + 4x^4 - 4x^3$ Given that f(2)=0



12. $f(x) = x^2(x - 1)^2(2 + x)$

