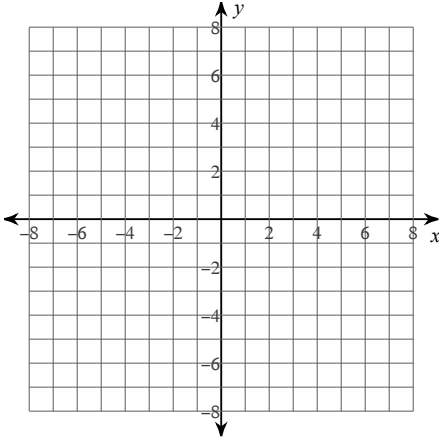


Graphing Parabolas in Factored Form

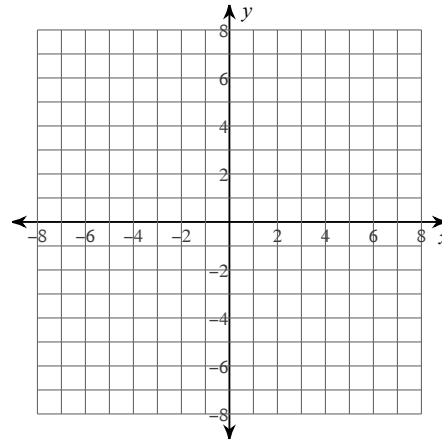
Date _____ Period _____

Identify the vertex, axis of symmetry, direction of opening, min/max value, and y-intercept of each. Then sketch the graph.

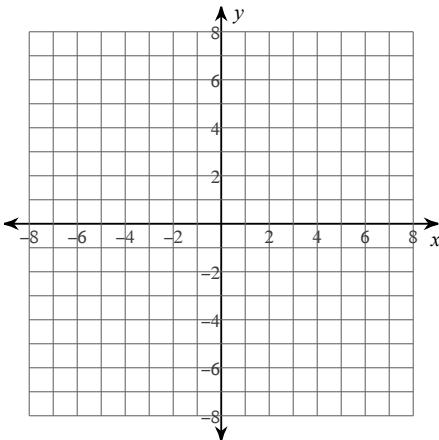
1) $f(x) = (x - 1)(x + 3)$



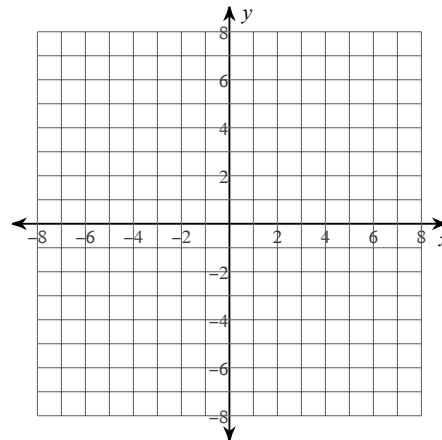
2) $f(x) = -\frac{1}{3}(x - 1)(x + 4)$



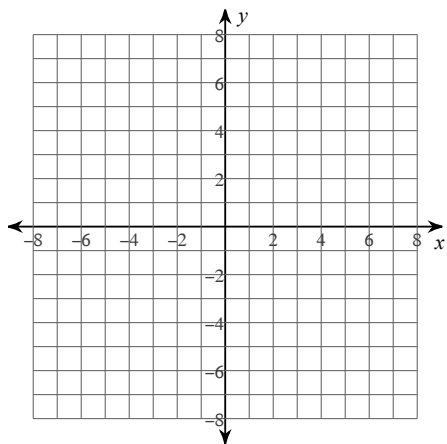
3) $f(x) = (x + 5)(x + 1)$



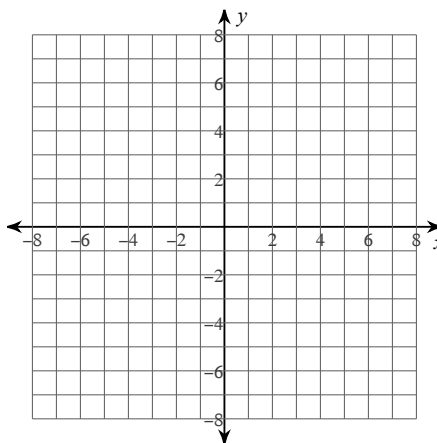
4) $f(x) = -(x - 4)(x - 2)$



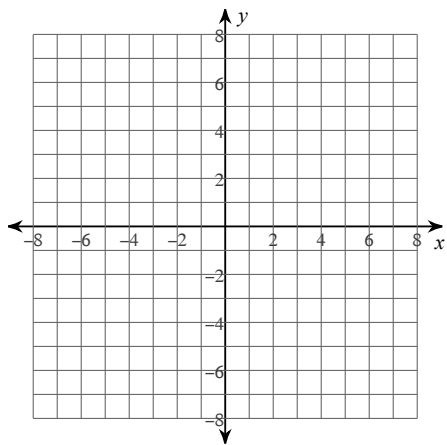
$$5) f(x) = -\frac{1}{2}(x+4)(x+2)$$



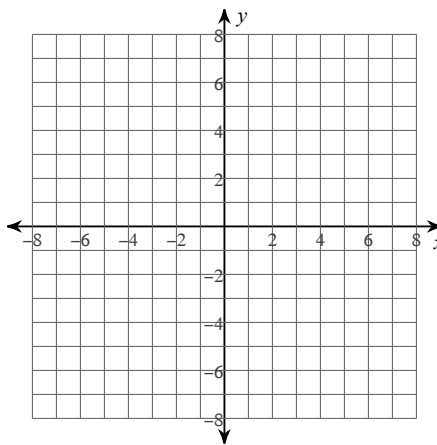
$$6) f(x) = (x-1)(x+1)$$



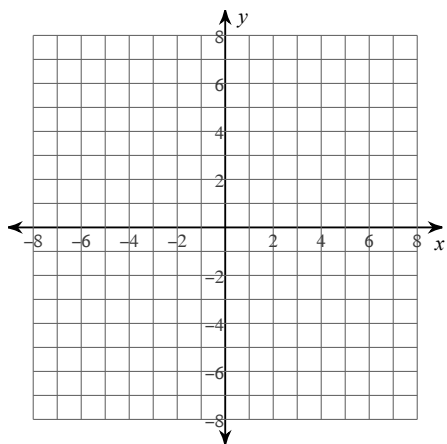
$$7) f(x) = 2(x-3)(x-1)$$



$$8) f(x) = -x(x-4)$$



$$9) f(x) = 3x(x-3)$$



$$10) f(x) = \frac{1}{2}x(x-7)$$

