

Solve Quadratic Equations by Graphing (10.3)

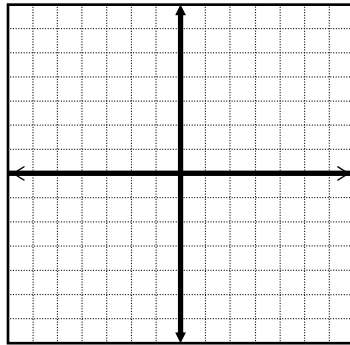
Key Terms: Get to know these terms extremely well!!!

- **x-intercepts** –

Finding x-intercepts by Graphing: Graph the function. Label the x-intercepts.

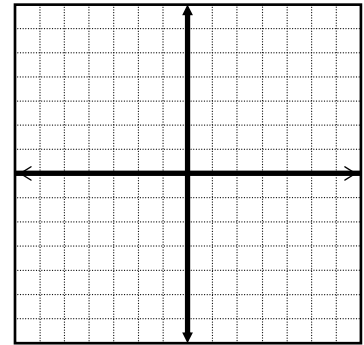
1) $y = x^2 - 4x + 3$

x	y



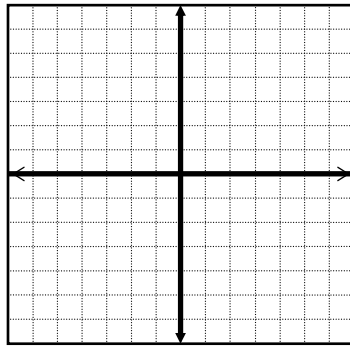
2) $y = x^2 - 2x + 1$

x	y

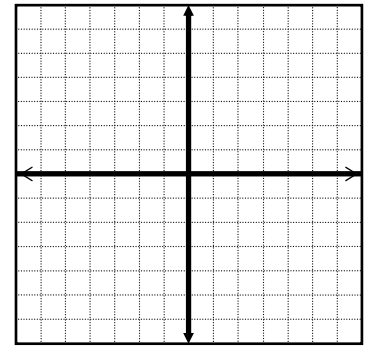


Finding x-intercepts by Factoring: Find the x-intercepts by factoring. Plot the point(s) on the graph.

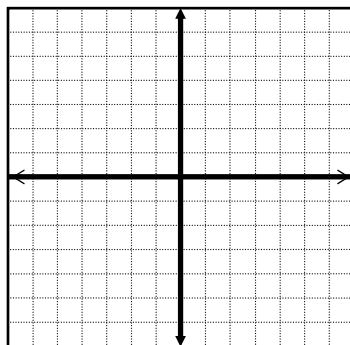
3) $x^2 + 5x + 4 = 0$



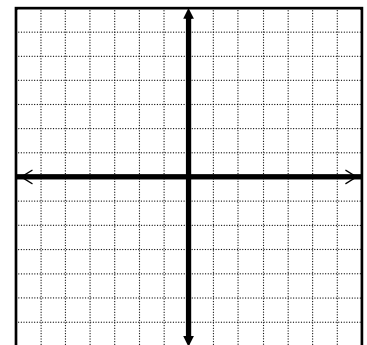
4) $0 = x^2 - 4$



5) $2x^2 + 3x = 5$



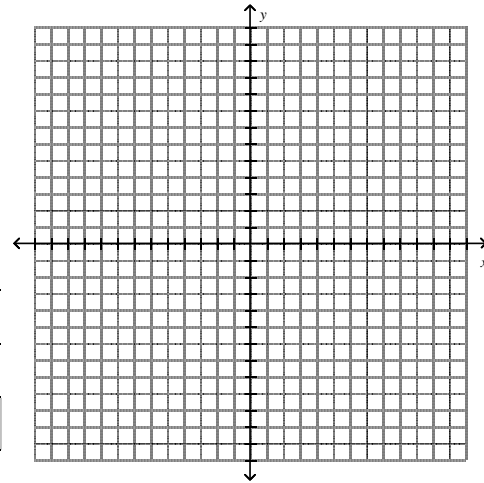
6) $x^2 - 4x = 45$



7) $f(x) = x^2 - 6x + 8$

x- intercept(s): _____
 Vertex: _____
 Axis of symmetry: _____

x	f(x)



8) $f(x) = x^2 - 4x + 4$

x- intercept(s): _____
 Vertex: _____
 Axis of symmetry: _____

x	f(x)

