Qudratic functions and Equations:

Practice

1. for ax^2+bx+c, use $x=\frac{-b}{2a}$ to find the axis of symmetry

a. $y=x^2+4x+3$

b. $y=-5x^2+6x-9$

2. find the vertex:

a. $y=6x^2+3x-2$

b. $y=-x^2+2x+5$

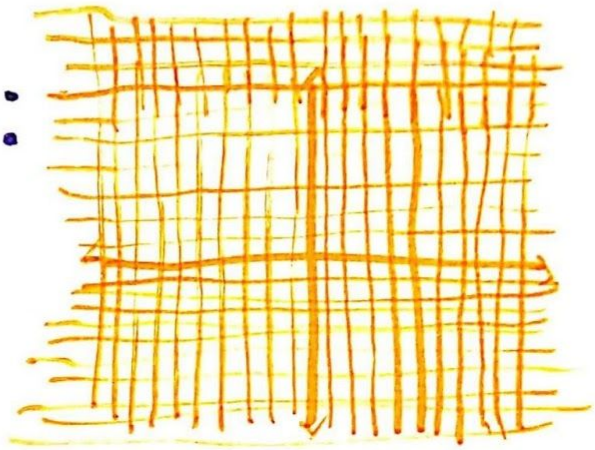
Quadratic Functions and Equations:

Practice

3. The highest or lowest point on a parabola is called the _____.

4. Graph $-4x^2-2$:

x	y



5. Use the quadratic formula to solve for x: $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$

a. $3x^2+2x-6$

b. $4x^2-5x+8$

Quadratic formula and Equations:

Practice

6. How many solutions are there? (hint: b^2-4ac)

a. $4x^2+12x+3=0$ b. $x^2-2x+4=0$

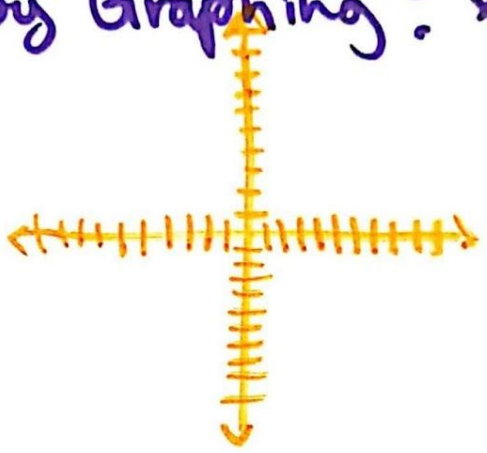
7. Solve using the product zero property:

a. $x^2+10x+16$ b. $x^2-3x-18$

Quadratic Functions and Equations:

Practice

8. Solve by Graphing: $x^2 - 3 = 0$



9. Solve using square roots:

a. $x^2 = -144$

b. $5x^2 - 30 = 0$

c. $32x^2 = 1$

d. $x^2 = 64$