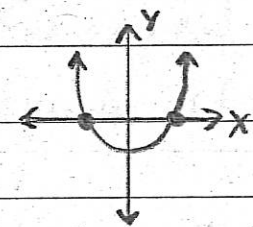
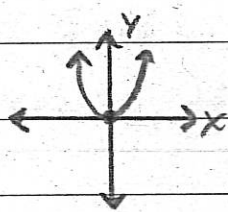


Solving Quadratic Equations

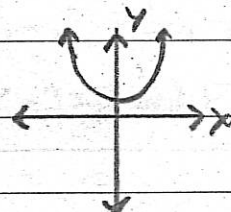
Roots of the Equation or Zeros of the Function



Two Solutions



One Solution



No Real Number
Solutions

Solve each equation by finding square roots.

$$\textcircled{1} \quad 3x^2 - 75 = 0$$

$$\begin{array}{r} +75 \quad +75 \\ \hline 3x^2 = 75 \\ \hline \frac{3}{3} \quad \frac{75}{3} \end{array}$$

$$\sqrt{x^2} = \sqrt{25}$$

$$\boxed{x = \pm 5}$$

$$\textcircled{2} \quad 2x^2 + 8 = -64$$

$$\begin{array}{r} -8 \quad -8 \\ \hline 2x^2 = -72 \\ \hline \frac{2}{2} \quad \frac{-72}{2} \end{array}$$

$$\sqrt{x^2} = \sqrt{-36}$$

No Real
Number Solutions