DATE

NAME

11-2

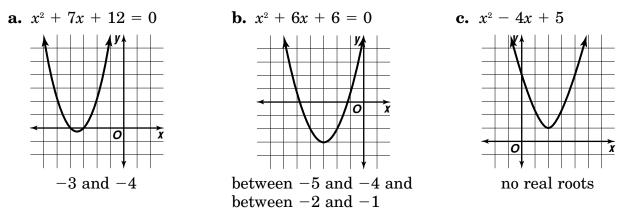
Study Guide

Student Edition Pages 620-627

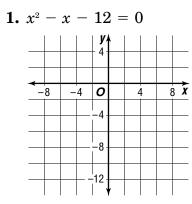
Solving Quadratic Equations by Graphing

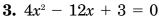
A **quadratic equation** is an equation in which the value of the related quadratic function is 0. The solutions of a quadratic equation are called the **roots** of the equation. The roots of a quadratic equation can be found by graphing the related quadratic function and finding the *x*-intercepts or **zeros** of the function.

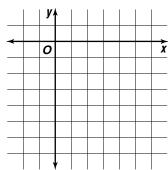
Examples: Solve each equation by graphing. If exact roots cannot be found, estimate the roots by stating the consecutive integers between which the roots lie.



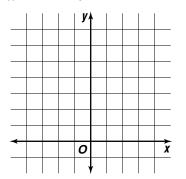
Solve each equation by graphing. If exact roots cannot be found, state the consecutive integers between which the roots lie.







2. $x^2 + 4 = 0$



4. $4x^2 = 35 - 4x$

