Name: ______

Date: _____

Given an equation in standard form, another method to solve is the quadratic formula.

I learning (30al 4 l	Given a quadratic equation, identify the number of
	solutions, zeros, roots or x — intercepts.

Example Use the discriminant to determine the nature of the roots for each quadratic equation, then solve.

a.
$$3x^2 + 4x + \frac{4}{3} = 0$$

b.
$$2x^2 - 8x = -9$$

Given a quadratic equation, find the values of solution(s) by factoring, completing the square or using
the quadratic formula.

Example Determine the roots for each equation. Express exact answers.

a.
$$\frac{t^2}{4} - t - \frac{5}{2} = 0$$

b.
$$3x^2 + 5x - 2 = 0$$

Example Solve $6x^2 - 14x + 8 = 0$ by factoring, completing the square and by the quadratic formula.