**Module 13**  Solving Quadratic Equations
of One Variable
**Lesson 5**  Solving Quadratic Equations
by the Quadratic Formula

**Set 1**

**Use the quadratic formula to find solutions to the problems below.**

**1.** Solve: $6m^2 - m - 2 = 0$

$$\left\{\frac{2}{3}, -\frac{1}{2}\right\}$$

**2.** Solve: $x^2 + 2x + 6 = 0$

$\varnothing$

**3.** Use the discriminate to determine the number of solutions to $3x^2 = 1 - x$.

**The discriminant is 13. There are two real solutions.**

**4.** Solve: $3x^2 = 1 - x$

$$\left\{\frac{-1 + \sqrt{13}}{6}, \frac{-1 - \sqrt{13}}{6}\right\}$$