1.1 Modeling and Equation Solving

Work with your group to solve the following equations.

Solve the equation algebraically.

$$5x^{2} - x - 30 = 2x^{2} - x$$

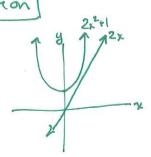
$$-2x^{2} + x$$

$$3x^2 - 30 = 0$$

Solve the equation graphically.

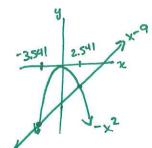
$$2x^2 + 1 = 2x$$

no Solution



Solve the equation graphically.

$$-x^2 = x - 9$$



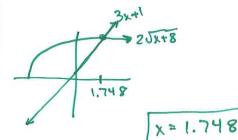
Solve the equation algebraically.

$$x(7x+3)=4$$

$$(7x-4)(x+1)=0$$

Solve the equation graphically.

$$3x + 1 = 2\sqrt{x + 8}$$



Solve the equation algebraically.

$$(x-1)^2 = -4x$$

 $(x^2 - 2x + 1)^2 = -4x$
 $+4x$

$$x^2 + 2x + 1 = 0$$

$$(x+1)(x+1)=0$$