## Solve the following Equations Using the Quadratic Formula

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

### Question 1

$$x^2 + 5x + 6 = 0$$
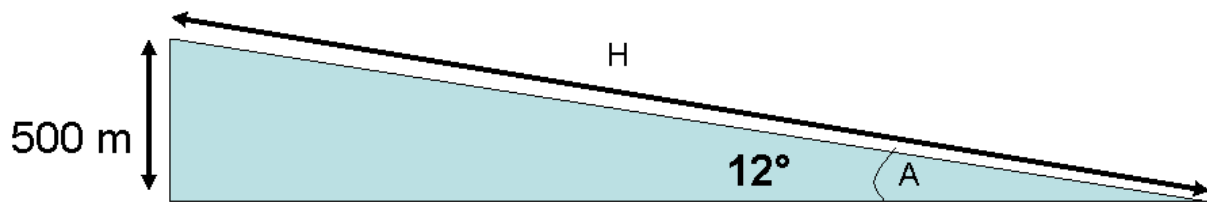
### Question 2

$$7x^2 - 3x + 3 = 0$$

## Solve the following trigonometry equation

### Question 3:

You are walking up a 500. meter high hill. The trail has an incline of 12 degrees. How far will you walk to get to the top?



### Equation to use

$$\sin(12) = \frac{500}{H}$$

## Water is made from two elements: Hydrogen and oxygen. If you put the two gases together, along with energy, you can make water:

$$2H_2(g) + O_2(g) \rightleftharpoons 2H_2O(l)$$