## 12.3.15

- 1. Solve the following quadratic equation using the Quadratic Formula below. (Hint: substitute a, b and c.)
- 2. Check your work by Factoring.

$$2x^{2} = x + 15 \qquad x = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$$

$$X = \frac{1 \pm \sqrt{(-1)^2 - 4(2)(-15)}}{2(12)}$$

$$X = \frac{1 + \sqrt{1 + 120}}{4}$$

$$2x 2x^{4} - 6x$$
 $5 5x - 15$ 

$$(2x+5)(x-3)=0$$
  
 $(x=-5)$ 

$$\frac{4}{X=3}$$
  $X=\frac{-5}{2}$