

12.2.15

1. Solve the following quadratic equation using the Quadratic Formula below. (Hint: substitute a, b and c.)

2. Check your work by Factoring.

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

$$a = 2 \quad b = 3 \quad c = -5$$

$\begin{array}{r} a \cdot c \\ -10 \end{array}$
 $\begin{array}{r} 5 \\ -2 \end{array}$
 $\begin{array}{r} 3 \end{array}$
 $\begin{array}{r} 2x \\ 5 \end{array}$

$2x^2$	$5x$
$-2x$	-5

$$(x-1)(2x+5)=0$$

$$x=1 \quad x=-\frac{5}{2}$$



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

$$x = \frac{-(3) \pm \sqrt{3^2 - 4(2)(-5)}}{2(2)}$$

$$x = \frac{-3 \pm \sqrt{49}}{4}$$

$$x = \frac{-3 + 7}{4} \quad x = \frac{-3 - 7}{4}$$

$$x=1 \quad x=-\frac{5}{2}$$