SWBAT evaluate algebraic expressions.

Evaluate each of the following for the given value. Show all work to receive full credit.

17.
$$6x + 4$$
; $x = -1$

18.
$$-3(2x+9)$$
; $x=2$

19.
$$4x^2 - 2x + 5$$
; $x = 3$

SWBAT solve quadratic equations by factoring using the grouping method. Factor each of the following. Show all work to receive full credit.

$$(X+3)(X+10) = 3, 100$$

1.
$$(x^2-5x+6)$$
 ac b
 $a=1,b=5c=6$ $\frac{1}{1-b}$ $\frac{1}{-7x}$ $\frac{1}{-2}$ $\frac{1}{-5}$ $\frac{1}{-5}$

Solve each of the following by factoring. Show all work to receive full credit.

$$5x^{2} + 15x + 6 = 0$$

$$5x^{2} + 15x + 6 = 0$$

$$5x^{2} + 15x + 2x + 6 = 0$$

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

$$\begin{array}{ll}
5x^{2}+17x+6=0 & 30 | 17 \\
-5 | b=17 | c=6 & 1 | 30 | 31 | x \\
x^{2}+15x+2x+6=0 & 2 | 15 | 17 | x \\
x(x+3)+2(x+3)=0 & (x+3)(5x+2)=0
\end{array}$$

$$5X+2=0$$

 $5X=-2$
 $X=-2$
 $X=-3$