What questions do you have on your "Solving Quadratics by Completing the Square" worksheet? We will be taking

our quiz soon... (17)  $(6n^2 + 20n - 47 - 3 + 47)$  (47 - 3 + 47) (47 - 3 + 47) (47 - 3 + 47) (47 - 20) (47 - $6(n+\frac{5}{3})^2 = \frac{200}{3}$ 6(n+==)2-2==0  $\frac{(2) 6k^2 - 12k - 48 = 0}{+48 + 48}$   $\frac{6k^2 - 12k = 48}{}$ (-2) :(-1)  $6(k^2-2k+1)=48+6$  $(6(K-1)^2 = 54)$  $6(k-1)^2-54=0$ 

$$\frac{18}{4x^{2}-17x} + \frac{19}{19} = \frac{6}{18}$$

$$\frac{4(x^{2}-17x) = (9-18)}{4(x^{2}-17x) = (9-18)} = -12 + \frac{289}{16}$$

$$\frac{4(x^{2}-17x) = (9-18)}{4(x^{2}-17x) = (12)} = \frac{97}{16}$$

$$\frac{4(x-178)^{2}-97}{16} = 0$$

To solve quadratics by taking square roots, you use your equation-solving skills, using PEMDAS backwards.

## From your worksheet.

Solve each equation by taking square roots.

$$4)\sqrt{a^{2}} = \sqrt{39}$$

$$0 = \pm \sqrt{39}$$

$$2n^{2} - 6 = -22$$

$$+ (e^{-1}/4)$$

$$10) 2n^{2} - 6 = -22$$

$$+ (e^{-1}/4)$$

$$10) 2n^{2} = -8$$

$$10) 2n^{2} = -10$$

Solve each equation by taking square roots.

16) 
$$49x^{2} + 8 = 9$$
  
 $-8 - 8$   
 $49x^{2} = \frac{1}{49}$   
 $X = \pm \frac{1}{49} = \pm \frac{1}{7}$   
 $X = \pm \frac{1}{7}$  or  $X = \frac{1}{7}$ ,  $-\frac{1}{7}$   
20)  $25x^{2} - 2 = 7$   
 $+2 \pm 2$   
 $26x^{2} = 9$   
 $26x^{2} = 9$ 

## Homework

## Solving Quadratics by Taking Square Roots WKS