

NAME \_\_\_\_\_

COMPLETING THE SQUARE IN CLASS WORKSHEET  
ALGEBRA & HONORSFind the value of  $c$  that makes each trinomial a perfect square.

1.  $x^2 + 26x + c$

$$\frac{26}{2} = 13^2$$

$$= 169$$

$c = 169$

2.  $x^2 - 17x + c$

$$\frac{17}{2} = 8.5^2$$

$c = 72.25$

## CHOOSE 4

Solve each equation by completing the square. Round to the nearest tenth if necessary.

3.  $x^2 + 6x - 16 = 0$

$$\frac{+16}{+16} \quad \frac{-16}{-16}$$

$$x^2 + 6x = 16$$

$$x^2 + 6x + 9 = 16 + 9$$

$$(x+3)^2 = 25$$

$$\sqrt{(x+3)^2} = \sqrt{25}$$

$$x+3 = \pm 5$$

$$-3 \quad -3$$

$$x = -2 \pm 5$$

$x = -2, -8$

4.  $x^2 - 2x - 14 = 0$

$$\frac{+14}{+14} \quad \frac{-14}{-14}$$

$$x^2 - 2x = 14$$

$$x^2 - 2x + 1 = 14 + 1$$

$$(x-1)^2 = 15$$

$$\sqrt{(x-1)^2} = \sqrt{15}$$

$$x-1 = \pm \sqrt{15}$$

$$\frac{+1}{+1} \quad \frac{-1}{-1}$$

$$x = 1 \pm \sqrt{15}$$

$x = 4.9, -2.9$

$$x = 1 + \sqrt{15}$$

$$= 4.9$$

$$x = 1 - \sqrt{15}$$

$$= -2.9$$

5.  $x^2 + 3x + 21 = 22$

$$\frac{-21}{-21} \quad \frac{+22}{+22}$$

$$x^2 + 3x = 1$$

$$x^2 + 3x + 2.25 = 1 + 2.25$$

$$(x+1.5)^2 = 3.25$$

$$\sqrt{(x+1.5)^2} = \sqrt{3.25}$$

$$x+1.5 = \pm \sqrt{3.25}$$

$$-1.5 \quad -1.5$$

$$x = -1.5 \pm \sqrt{3.25}$$

$x = 0.3, -3.3$

$$x = -1.5 + \sqrt{3.25}$$

$$= 0.3$$

$$x = -1.5 - \sqrt{3.25}$$

$$= -3.3$$

6.  $\frac{5x^2 - 10x + 23}{5} = \frac{23}{5}$

$$x^2 - 2x = 4.6$$

$$x^2 - 2x + 1 = 4.6 + 1$$

$$(x-1)^2 = 5.6$$

$$\sqrt{(x-1)^2} = \sqrt{5.6}$$

$$x-1 = \pm \sqrt{5.6}$$

$$\frac{+1}{+1} \quad \frac{-1}{-1}$$

$$x = 1 \pm \sqrt{5.6}$$

$x = 3.4, -1.4$

$$x = 1 + \sqrt{5.6}$$

$$= 3.4$$

$$x = 1 - \sqrt{5.6}$$

$$= -1.4$$

7.  $2x^2 - 2x + 7 = 5$

$$\frac{-5}{-5} \quad \frac{+7}{+7} \quad \frac{-5}{-5}$$

$$x^2 - x + 3.5 = 2.5$$

$$-3.5 \quad -3.5$$

$$x^2 - x = -1$$

$$x^2 - x + 0.25 = -1 + 0.25$$

$$(x-0.5)^2 = -0.75$$

$$\emptyset$$

Can't take square root of a negative

$\emptyset$

8.  $\frac{-2x^2 + 10x - 14}{2} = \frac{-14}{2}$

$$x^2 - 5x = 7$$

$$x^2 - 5x + 6.25 = 7 + 6.25$$

$$(x-2.5)^2 = 13.25$$

$$\sqrt{(x-2.5)^2} = \sqrt{13.25}$$

$$x-2.5 = \pm \sqrt{13.25}$$

$$\frac{+2.5}{+2.5} \quad \frac{-2.5}{-2.5}$$

$$x = 2.5 \pm \sqrt{13.25}$$

$x = -1.1, 6.1$

$$x = 2.5 + \sqrt{13.25}$$

$$= 6.1$$

$$x = 2.5 - \sqrt{13.25}$$

$$= -1.1$$

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