Algebra 1
9.4 Practice

Name_____

SIMULTANEOUS ROUND TABLE





Solve Patiently wait Pass paper Check work Coach or praise Continue...

1) Find the value of c that completes the square. Then factor the perfect square trinomial.

a) $x^2 + 24x + c$

144 $(x+12)^2$

b) $x^2 + 7x + c$

12.25 $(x+3.5)^2$

2) Find the value of c that completes the square. Then factor the perfect square trinomial.

a) $x^2 - 38x + c$

361 $(x-19)^2$

b) $x^2 - 5x + c$

6.25 $(x-2.5)^2$

3) Solve the equation by completing the square.

$a^2 + 6a - 7 = 0$

$(x+3)^2 = 7 + 9$

$x+3 = \pm\sqrt{16}$

$x = -3 \pm 4$

$-7, 1$

4) Solve the equation by completing the square.

$x^2 - 14x - 73 = 0$

$(x-7)^2 = 73 + 49$

$x-7 = \pm\sqrt{122}$

$x = 7 \pm \sqrt{122}$

5) Solve the equation by completing the square.

$2y^2 + 8y - 10 = 0$

$\frac{2(y^2+4y-5)}{2} = \frac{0}{2}$

$y^2+4y+4 = 5+4$

$(y+2)^2 = 9$

$y = -2 \pm 3$

$1, -5$

6) Solve the equation by completing the square.

$\frac{2x^2 + 12x - 8}{2} = \frac{0}{2}$

$x^2 + 6x - 4 = 0$

$(x+3)^2 = 4 + 9$

$x = -3 \pm \sqrt{13}$