Name:

Quadratics-Completing The Square-Scaffolded Date:

(1) $x^2 + 10x = 9$

(2) $x^2 - 20x = -16$

(3) $x^2 - 18x = -59$

(4) $x^2 + 12x = -9$

(5) $x^2 + 18x = -49$

(6) $x^2 + 18x = -73$

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(7) $x^2 - 16x + 61 = 0$

(8) $x^2 - 8x - 27 = 0$

(9) $x^2 - 8x + 5 = 0$

(10) $x^2 + 8x - 25 = 0$

(11) $x^2 + 10x + 2 = 0$

(12) $x^2 - 2x - 10 = 0$

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(13) $2x^2 - 36x + 156 = 0$

(14) $4x^2 - 32x - 4 = 0$

(15) $3x^2 + 48x + 177 = 0$

(16) $3x^2 - 42x + 102 = 0$

(17) $5x^2 + 50x + 70 = 0$

(18) $4x^2 - 48x + 104 = 0$

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(19) $(x - \frac{1}{2})^2 = \frac{57}{4}$

(20) $(x - \frac{7}{2})^2 = \frac{57}{4}$

(21) $(x + \frac{5}{2})^2 = \frac{73}{4}$

(22) $(x + \frac{3}{2})^2 = \frac{133}{4}$

Name:

answers - Quadratics-Completing The Square-Scaffolded Date:

(1) $x = -5 \pm 1\sqrt{34}$
(2) $x = 10 \pm 2\sqrt{21}$
(3) $x = 9 \pm -\sqrt{22}$
(4) $x = -6 \pm -3\sqrt{3}$
(5) $x = -9 \pm 4\sqrt{2}$
(6) $x = -9 \pm -2\sqrt{2}$
(7) $x = 8 \pm \sqrt{3}$
(8) $x = 4 \pm \sqrt{43}$
(9) $x = 4 \pm \sqrt{11}$
(10) $x = -4 \pm \sqrt{41}$
(11) $x = -5 \pm \sqrt{23}$
(12) $x = 1 \pm \sqrt{11}$
(13) $x = +9 \pm \sqrt{3}$
(14) $x = +4 \pm \sqrt{17}$
(15) $x = -8 \pm \sqrt{5}$
(16) $x = +7 \pm \sqrt{15}$
(17) $x = -5 \pm \sqrt{11}$
(18) $x = +6 \pm \sqrt{10}$
(19) $x = \frac{1 \pm \sqrt{57}}{2}$
(20) $x = \frac{7 \pm \sqrt{57}}{2}$
(21) $x = \frac{-5 \pm \sqrt{73}}{2}$
(22) $x = \frac{-3 \pm \sqrt{133}}{2}$