Math 2 Practice Quiz 4.1 & 4.2

Period

Find the value that completes the square and then rewrite as a perfect square.

1)
$$y^2 - 34y +$$
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2)
$$x^2 - 30x +$$

3)
$$x^2 - 17x +$$

4)
$$m^2 + 17m +$$

Solve each equation by completing the square.

5)
$$v^2 + 4v - 38 = 6$$

6)
$$r^2 + 5r + 15 = 5 - 3r$$

7)
$$7n^2 + 25n - 82 = 6n + 5n^2$$

8)
$$-27 = -3n^2 + 15n$$

Math 2 Practice Quiz 4.1 & 4.2

Period

Find the value that completes the square and then rewrite as a perfect square.

Solve each equation by completing the square.

5)
$$v^2 + 4v - 38 = 6$$
 $\{-2 + 4\sqrt{3}, -2 - 4\sqrt{3}\}$

6)
$$r^2 + 5r + 15 = 5 - 3r$$

 $\left\{ -4 + \sqrt{6}, -4 - \sqrt{6} \right\}$

7)
$$7n^2 + 25n - 82 = 6n + 5n^2$$
 $\left\{ \frac{-19 + 3\sqrt{113}}{4}, \frac{-19 - 3\sqrt{113}}{4} \right\}$

8)
$$-27 = -3n^2 + 15n$$

$$\left\{ \frac{5 + \sqrt{61}}{2}, \frac{5 - \sqrt{61}}{2} \right\}$$