

## 5.6 - Homework

Date \_\_\_\_\_

**Solve each equation by completing the square.**

1)  $k^2 - 16k - 19 = 0$

2)  $r^2 + 16r + 55 = 0$

3)  $p^2 + 8p + 61 = 0$

4)  $x^2 - 12x - 71 = 0$

5)  $v^2 - 20v + 89 = -10$

6)  $k^2 + 16k - 87 = -7$

7)  $x^2 + 14x - 27 = 8$

8)  $n^2 - 14n + 57 = -2$

9)  $a^2 - 20a = -64$

10)  $x^2 + 17 = 12x$

## Answers to 5.6 - Homework

1)  $\{17.11, -1.11\}$

5)  $\{11, 9\}$

9)  $\{16, 4\}$

2)  $\{-5, -11\}$

6)  $\{4, -20\}$

10)  $\{10.359, 1.641\}$

3) No solution.

7)  $\{2.165, -16.165\}$

4)  $\{16.344, -4.344\}$

8) No solution.