

9.31-9.41 Worksheet

Date _____ Period _____

Solve each equation by factoring.

1) $r^2 + 15r + 56 = 0$

2) $x^2 + x - 20 = 0$

3) $x^2 - x - 56 = 0$

4) $b^2 - 4b - 32 = 0$

5) $x^2 - 4x - 21 = 0$

6) $x^2 - 49 = 0$

Solve each equation by taking square roots.

7) $n^2 = 36$

8) $x^2 = 49$

9) $m^2 - 7 = -8$

10) $p^2 - 6 = 43$

11) $k^2 + 6 = 87$

12) $-4n^2 = -16$

Answers to 9.31-9.41 Worksheet (ID: 1)

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| 1) $\{-8, -7\}$ | 2) $\{4, -5\}$ | 3) $\{8, -7\}$ | 4) $\{-4, 8\}$ |
| 5) $\{7, -3\}$ | 6) $\{7, -7\}$ | 7) $\{6, -6\}$ | 8) $\{7, -7\}$ |
| 9) No solution. | 10) $\{7, -7\}$ | 11) $\{9, -9\}$ | 12) $\{2, -2\}$ |