

## Solving Quadratic Equations by Factoring

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each equation by factoring.

1)  $(k+1)(k-5) = 0$

2)  $(a+1)(a+2) = 0$

3)  $(4k+5)(k+1) = 0$

4)  $(2m+3)(4m+3) = 0$

5)  $x^2 - 11x + 19 = -5$

6)  $n^2 + 7n + 15 = 5$

7)  $n^2 - 10n + 22 = -2$

8)  $n^2 + 3n - 12 = 6$

9)  $6n^2 - 18n - 18 = 6$

10)  $7r^2 - 14r = -7$

# 8.7 Worksheet #2

Algebra 1

Name: \_\_\_\_\_ Prd: \_\_\_\_\_

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## REVIEW Solving Equations by Factoring and Square Root Method

Solve each equation by factoring.

1)  $2m^2 + 15m + 18 = 0$

2)  $n^2 - 3 = 2n$

3)  $x^2 = -30 + 11x$

4)  $2r^2 = 10r$

5)  $3x^2 - 2 = x$

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

Solve each equation by taking square roots.

7)  $p^2 = -21$

8)  $b^2 = 17$

9)  $x^2 = 16$

10)  $16n^2 = 25$

11)  $4n^2 = 100$

12)  $3b^2 - 1 = 11$

Simplify.

13)  $\sqrt{108}$

14)  $\sqrt{150}$

15)  $\sqrt{20}$

16)  $\sqrt{125x^4y^2}$

17)  $\sqrt{144x^5y^5}$

18)  $\sqrt{600x^3y^5}$