

Factoring Special Case Quadratics

Date _____ Period _____

Factor each difference of perfect squares quadratic and determine the zeros.

1) $n^2 - 25$

2) $r^2 - 9$

3) $v^2 - 4$

4) $n^2 - 1$

5) $3m^2 - 12$

6) $2n^2 - 50$

Solve each equation by factoring, then determine the zeros.

7) $3x^2 - 9x = 0$

8) $p^2 - 8p = 0$

Answers to Factoring Special Case Quadratics (ID: 1)

1) $(n + 5)(n - 5)$

2) $(r + 3)(r - 3)$

3) $(v + 2)(v - 2)$

4) $(n + 1)(n - 1)$

5) $3(m + 2)(m - 2)$

6) $2(n + 5)(n - 5)$

7) $\{3, 0\}$

8) $\{8, 0\}$