

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

## Completing the Square

ES3

Solve each quadratic equation by completing the square.

1)  $z^2 - 6z - 7 = 0$

2)  $q^2 - 72 = q$

3)  $s^2 + 8s =$

$= 66$

5)  $n^2 + 13n =$

$= 9t$

7)  $39 = d(d$

$+ 2 = 0$

9)  $v^2 + 4v + 1 = 0$

10)  $4y = y^2 + 3$

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## Answer key

# Completing the Square

ES3

Solve each quadratic equation by completing the square.

1)  $z^2 - 6z - 7 = 0$

$z = -1 ; z = 7$

2)  $q^2 - 72 = q$

$q = -8 ; q = 9$

3)  $s^2 + 8s =$

$s = -4 \pm$

5)  $n^2 + 13n$

$n = -9 ;$

7)  $39 = d(d$

$d = -13 ; d = 3$

9)  $v^2 + 4v + 1 = 0$

$v = -2 \pm \sqrt{3}$

10)  $4y = y^2 + 3$

$y = 1 ; y = 3$

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