

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

## Completing the Square

ES2

Solve each quadratic equation by completing the square.

1)  $p^2 - 11p + 30 = 0$

2)  $r^2 + 4r = 5$

3)  $x^2 - 6x =$

$) = -39$

5)  $d^2 - 5d =$

$^2 + 26$

7)  $n^2 + 4n +$

$+ 3)$

9)  $-8s = s^2 + 12$

10)  $t^2 + 10t + 18 = 0$

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## Answer key

# Completing the Square

ES2

Solve each quadratic equation by completing the square.

1)  $p^2 - 11p + 30 = 0$

$p = 5 ; p = 6$

2)  $r^2 + 4r = 5$

$r = -5 ; r = 1$

3)  $x^2 - 6x =$

$x = 3 \pm 7$

5)  $d^2 - 5d =$

$d = -2 ; d =$

7)  $n^2 + 4n +$

$n = -2 \pm \sqrt{21}$

9)  $-8s = s^2 + 12$

$s = -6 ; s = -2$

) = -39

= 13

$d^2 + 26$

= 13

+ 3)

$z = -7 ; z = 4$

10)  $t^2 + 10t + 18 = 0$

$t = -5 \pm \sqrt{7}$

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