

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

## Solving Equations

Sheet 1

Solve each equation by reducing to quadratic form.

1)  $p^4 - 7p^2 + 12 = 0$

2)  $n^3 - 4n^2 - 5n = 0$

3)  $k^3 + 512 = 0$

$35r = 0$

5)  $2m^3 + 5m^2 - 3m = 0$

$^2 = -36$

7)  $g^4 - 16 = 0$

8)  $u(u^4 + 5u^2 + 6) = 0$

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## Answer key

# Solving Equations

Sheet 1

Solve each equation by reducing to quadratic form.

1)  $p^4 - 7p^2 + 12 = 0$

2)  $n^3 - 4n^2 - 5n = 0$

$p = \pm 2 ; p = \pm\sqrt{3}$

$n = 0 ; n = 5$

3)  $k^3 + 512 = 0$

$35r = 0$

$k = -8 ; k = 4 \pm 4$

$r = 0 ; r = \pm\sqrt{5}i$

5)  $2m^3 + 5m^2 - 3m = 0$

$h^2 = -36$

$m = -3 ; m = 0 ; r = \pm 2i$

$h = \pm 3i$

7)  $g^4 - 16 = 0$

8)  $u(u^4 + 5u^2 + 6) = 0$

$g = \pm 2 ; g = \pm 2i$

$u = 0 ; u = \pm\sqrt{2}i ; u = \pm\sqrt{3}i$

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