

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

## Solving Equations

Sheet 2

Solve each equation by reducing to quadratic form.

1)  $v^3 - 216 = 0$

2)  $x^4 + 6x^2 = 16$

3)  $d(d^4 - 15d^2 + 54)$

$g^2 + 7g = 0$

5)  $q^4 - 81 = 0$

$+ 7u = 0$

7)  $2 = w^4 + w^2$

8)  $t^5 - 2t^3 - 15t = 0$

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## Answer key

### Solving Equations

Sheet 2

Solve each equation by reducing to quadratic form.

1)  $v^3 - 216 = 0$

$v = 6 ; v = -3 \pm 3i$

2)  $x^4 + 6x^2 = 16$

$x = \pm 2\sqrt{2}i$

3)  $d(d^4 - 15d^2 + 54)$

$d = 0 ; d = \pm\sqrt{6} ; d = \pm 3$

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$g^2 + 7g = 0$

$g = \frac{1}{3} ; g = 7$

5)  $q^4 - 81 = 0$

$q = \pm 3 ; q = \pm 3i$

$u + 7u = 0$

$u = 1 ; u = 7$

7)  $2 = w^4 + w^2$

$w = \pm 1 ; w = \pm\sqrt{2}i$

8)  $t^5 - 2t^3 - 15t = 0$

$t = 0 ; t = \pm\sqrt{5} ; t = \pm\sqrt{3}i$