

Name : _____

Solving Equations

Sheet 3

Solve each equation by reducing to quadratic form.

1) $3r^3 + r^2 - 10r = 0$

2) $k^5 + 7k^3 + 12k = 0$

3) $z^4 - 7z^2 = -6$

$n^2 + 26n = 0$

5) $s(s^4 - 6s^2 - 7) = 0$

7) $h^3 - 64 = 0$

8) $v^4 + 9v^2 + 20 = 0$

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Answer key

Solving Equations

Sheet 3

Solve each equation by reducing to quadratic form.

1) $3r^3 + r^2 - 10r = 0$

2) $k^5 + 7k^3 + 12k = 0$

$r = -2; r = 0; r =$

$= \pm\sqrt{3}i; k = \pm 2i$

3) $z^4 - 7z^2 = -6$

$n^2 + 26n = 0$

$z = \pm 1; z = \pm\sqrt{6}$

$n = 2; n = 13$

5) $s(s^4 - 6s^2 - 7) = 0$

$s = 0; s = \pm\sqrt{7}; s$

$= \pm 4i$

7) $h^3 - 64 = 0$

8) $v^4 + 9v^2 + 20 = 0$

$h = 4; h = -2 \pm 2\sqrt{3}i$

$v = \pm 2i; v = \pm\sqrt{5}i$

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