

Name : _____

Dividing Polynomials

Sheet 1

Divide by synthetic method.

1) $(n^2 + 6n - 27) \div (n - 3)$

2) $(2b^4 + 7b^3 + 12b^2 - 9b - 27) \div (2b + 3)$

3) $(2t^4 + t^3 + 5t^2 + \dots) \div (4v - 5)$

5) $(h^3 - 6h^2 + 32) \div (q + 6)$

7) $(d^3 + 13d^2 + 40d + 36) \div (d + 9)$

8) $(p^4 - 6p^3 - 15p^2 - 12p + 32) \div (p - 8)$

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Answer key

Sheet 1

Dividing Polynomials

Divide by synthetic method.

1) $(n^2 + 6n - 27) \div (n - 3)$

2) $(2b^4 + 7b^3 + 12b^2 - 9b - 27) \div (2b + 3)$

$n + 9$

$b^3 + 2b^2 + 3b - 9$

3) $(2t^4 + t^3 + 5t^2 +$

$) \div (4v - 5)$

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$2t^3 - 3t^2 + 11t -$

5) $(h^3 - 6h^2 + 32) \div$

$\div (q + 6)$

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$h^2 - 2h - 8$

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7) $(d^3 + 13d^2 + 40d + 36) \div (d + 9)$

8) $(p^4 - 6p^3 - 15p^2 - 12p + 32) \div (p - 8)$

$d^2 + 4d + 4$

$p^3 + 2p^2 + p - 4$