

Name : _____

Dividing Polynomials

Sheet 1

Divide by long division method.

1) $(4a^3 - 7a^2 - 11a + 5) \div (4a + 5)$

2) $(6d^5 + 13d^4 - 6d^3 - 12d^2 + 5d - 6) \div (2d^2 + d - 3)$

3) $(2z^4 + 5z^3 + \dots)$

4) $(5b^6 + 23b^5 + \dots)$

5) $(21x^5 + 24x^4 + \dots)$

6) $(6v^2 + 5v + 1) \div (2v + 1)$

7) $(18t^4 + 21t^3 + t^2 + 11t - 6) \div (2t + 3)$

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+ 2b + 3)

3)

Dividing Polynomials

Divide by long division method.

1) $(4a^3 - 7a^2 - 11a + 5) \div (4a + 5)$

$a^2 - 3a + 1$

2) $(6d^5 + 13d^4 - 6d^3 - 12d^2 + 5d - 6) \div (2d^2 + d - 3)$

$3d^3 + 5d^2 -$

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

$2z^2 + z + 3$

4) $(5b^6 + 23b^5$

$b^2 + 4b - 1$

5) $(21x^5 + 24x^4$

$3x^2 + 3x - 1$

6) $(6v^2 + 5v + 1) \div (2v + 1)$

$3v + 1$

7) $(18t^4 + 21t^3 + t^2 + 11t - 6) \div (2t + 3)$

$9t^3 - 3t^2 + 5t - 2$

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