

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

## Dividing Polynomials

Sheet 3

Divide by long division method.

1)  $(7c^7 - 5c^6 - 19c^5 + 22c^4 - 5c^3 + 2c^2 - 18c + 6) \div (7c^4 - 5c^3 + 2c^2 + 6)$

2)  $(8m^3 + 14m^2 + 11m + 2) \div (4m + 1)$

3)  $(7y^4 - 31y^3 -$

4)  $(2s^5 + 9s^4 +$

5)  $(5a^4 + 17a^3 -$

6)  $(18u^5 + 7u^4 + 80u^3 - 127u^2 - 3u - 60) \div (9u^3 - 10u^2 + u - 5)$

7)  $(n^2 - 9n - 10) \div (n + 1)$

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**Dividing Polynomials**

Divide by long division method.

1)  $(7c^7 - 5c^6 - 19c^5 + 22c^4 - 5c^3 + 2c^2 - 18c + 6) \div (7c^4 - 5c^3 + 2c^2 + 6)$

$c^3 - 3c + 1$

2)  $(8m^3 + 14m^2 + 11m + 2) \div (4m + 1)$

$2m^2 + 3m + 2$

3)  $(7y^4 - 31y^3 - 23y^2 + 17y + 2) \div (y^2 - 3y + 2)$

$7y^2 - 3y + 2$

4)  $(2s^5 + 9s^4 + 13s^3 + 6s^2 + 8s + 4) \div (2s^3 + 3s^2 + s + 2)$

$2s^3 + 3s^2 + s + 2$

5)  $(5a^4 + 17a^3 - 12a^2 + 11a - 7) \div (a^2 + 4a - 7)$

$a^2 + 4a - 7$

6)  $(18u^5 + 7u^4 + 80u^3 - 127u^2 - 3u - 60) \div (9u^3 - 10u^2 + u - 5)$

$2u^2 + 3u + 12$

7)  $(n^2 - 9n - 10) \div (n + 1)$

$n - 10$

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