

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

## Dividing Polynomials

Sheet 3

Divide by synthetic method.

1)  $(p^4 + 6p^3 - 13p^2 + 23p - 8) \div (p + 8)$       2)  $(6t^2 - 47t - 63) \div (t - 9)$

3)  $(25g^3 - 10g^2 + 2g - 1) \div (g + 2)$

5)  $(y^2 - 6y + 8) \div (y - 2)$       6)  $(s^2 - 25) \div (s + 5)$

7)  $(c^4 + 13c^3 + 48c^2 + 34c - 12) \div (c + 6)$       8)  $(-2w^3 + 12w + 18) \div (w - 3)$

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**Dividing Polynomials**

Divide by synthetic method.

1)  $(p^4 + 6p^3 - 13p^2 + 23p - 8) \div (p + 8)$       2)  $(6t^2 - 47t - 63) \div (t - 9)$

$p^3 - 2p^2 + 3p - 1$

$6t + 7$

3)  $(25g^3 - 10g^2 + 2g - 1) \div (g + 2)$

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$5g^2 - 5g + 7$

$- 12$

5)  $(y^2 - 6y + 8) \div (y - 2)$

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$- 25) \div (s + 5)$

$y - 2$

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7)  $(c^4 + 13c^3 + 48c^2 + 34c - 12) \div (c + 6)$       8)  $(-2w^3 + 12w + 18) \div (w - 3)$

$c^3 + 7c^2 + 6c - 2$

$-2w^2 - 6w - 6$