

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

## Dividing Polynomials

Sheet 2

Divide by synthetic method.

1)  $(z^3 - 13z - 12) \div (z + 1)$

2)  $(10u^3 + 31u^2 - 26u - 9) \div (10u - 9)$

3)  $(6n^4 + 5n^3 + 4n^2 - 3n - 2) \div (n + 7)$

$\div (x + 7)$

5)  $(15m^2 + 65m - 48) \div (3m - 4)$

$a^2 + 75a + 54) \div (a - 9)$

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7)  $(9b^4 + 15b - 24) \div (b - 1)$

8)  $(-r^3 - 29r^2 - 112r - 48) \div (r + 4)$

**Dividing Polynomials**

Divide by synthetic method.

1)  $(z^3 - 13z - 12) \div (z + 1)$

2)  $(10u^3 + 31u^2 - 26u - 9) \div (10u - 9)$

$z^2 - z - 12$

$u^2 + 4u + 1$

3)  $(6n^4 + 5n^3 + 4n^2 + 3n + 2) \div (n + 7)$

$\div (x + 7)$

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$n^3 + 2n^2 + 3n + 2$

5)  $(15m^2 + 65m - 10) \div (m - 2)$

$a^2 + 75a + 54) \div (a - 9)$

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$15m - 10$

$\cdot 6$

7)  $(9b^4 + 15b - 24) \div (b - 1)$

8)  $(-r^3 - 29r^2 - 112r - 48) \div (r + 4)$

$9b^3 + 9b^2 + 9b + 24$

$-r^2 - 25r - 12$