

## Algebra 2 5.4 a Long Division

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Name \_\_\_\_\_

1) 
$$\frac{x^4 - 6x^3 + 4x^2 + 14x + 2}{x^2 - 3}$$

2) 
$$\frac{n^5 + 2n^4 - n^3 - 6n^2 - 9n - 6}{n^3 + 1}$$

3) 
$$\frac{n^3 + 9n^2 + 17n - 15}{n^2 + 4}$$

4) 
$$\frac{x^3 - x^2 + 2x + 4}{x + 1}$$

5) 
$$(2b^3 + 7b^2 - 18b - 15) \div (b + 5)$$

6) 
$$(-3m^3 - 3m^2 + 8m + 4) \div (m + 2)$$

7) 
$$\frac{x^4 - 5x^3 - 4x^2 + 20x}{x^2 - 5x}$$

8) 
$$(p^4 + 3p^3 - p - 4) \div (p + 3)$$

$$9) \frac{x^4 + 3x^3 - 11x^2 - 2x + 11}{x^2 - 2}$$

$$10) \frac{v^5 + v^4 - 2v^3 + 5v^2 - 4}{v^2 - 1}$$

$$11) (r^3 - 5r + 6) \div (r - 2)$$

$$12) \frac{n^4 + 2n^3 - 2}{n^2 - 1}$$

$$13) \frac{k^5 - 3k^4 + 5k^3 - 4k^2 + k - 14}{k^3 - 2}$$

$$14) \frac{n^4 + 7n^3}{n^2 + 4}$$