

Algebra 2 5.4 a Long Division

Name _____

© 2018 Kuta Software LLC. All rights reserved.

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

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

$$6) (p^4 + 3p^3 - p - 4) \div (p + 3)$$

$$7) \frac{v^5 + v^4 - 2v^3 + 5v^2 - 4}{v^2 - 1}$$

$$8) (r^3 - 5r + 6) \div (r - 2)$$

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

$$10) \frac{k^5 - 3k^4 + 5k^3 - 4k^2 + k - 14}{k^3 - 2}$$