

Name \_\_\_\_\_  
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Date \_\_\_\_\_  
Algebra 2



## *Dividing Polynomials With Long Division*

Divide each of the following polynomials

1. 
$$\frac{6x^3 + 19x^2 + 11x - 6}{3x - 1}$$

2. 
$$\frac{15x^3 + 29x^2 - 23x - 21}{5x + 3}$$

3. 
$$\frac{2x^3 - 3x^2 + 2x + 5}{x - 5}$$

4. 
$$\frac{9x^2 - 2}{3x + 1}$$

$$5. \frac{2x^3 - x - 2}{x - 4}$$

$$6. \frac{4x^3 + 10x^2 + 10x - 1}{2x - 3}$$

$$7. \frac{4x^3 + 5x + 10}{2x + 3}$$

$$8. \frac{4x^4 + 10x^3 - 2x^2 + x + 2}{2x + 1}$$

$$9. \frac{6x^4 - 8x^3 - 12x^2 + 13x + 7}{3x - 4}$$

$$10. \frac{6x^2 + 7x - 1}{2x + 5}$$