

Algebra 2
Long Division

Name: _____
Date: _____

Use polynomial long division to divide. You must show the correct math to earn credit for a correct answer.

1. $(9x + 12) \div (3x + 5)$	2. $(4x - 8) \div (x - 2)$

3. $(6x^2 - 5x - 25) \div (3x + 5)$ | 4. $(5x^2 + 12x + 14) \div (-5x + 3)$ |

5.

$$(6x^2 - 3x + 18) \div (2x - 7)$$

6.

$$(12x^2 - 11) \div (3x^2 + 4x - 1)$$

7.

$$(8x^2 + x - 6) \div (2x^2 + 9)$$

8.

$$(21x - 10x^2 + 6) \div (-5x + 3)$$

Answers randomly placed in this table. Cross them out as you go. ☺

$3x + 9 + \frac{81}{2x - 7}$	$4 + \frac{x - 42}{2x^2 - 9}$	$2x - 5$	$3 + \frac{-3}{3x + 5}$
4	$4 + \frac{-16x - 7}{3x^2 + 4x - 1}$	$-x - 3 + \frac{23}{-5x + 3}$	$2x - 3 + \frac{15}{-5x + 3}$