Long Division W.S

Name:_____

Divide each of the polynomials using long division.

1. $(4x^2 - 9) \div (2x + 3)$

2. $(x^2 - 4) \div (x + 4)$

3. $(2x^2 + 5x - 3) \div (x + 3)$

4. $(2x^2 + 5x - 3) \div (x - 3)$

5. $(3x^2 - 13x - 10) \div (x - 5)$

6. $(3x^2 - 13x - 10) \div (x + 5)$

7. $(11x + 20x^2 + 12x^3 + 2) \div (3x + 2)$

8. $(12x^3 + 2 + 11x + 20x^2) \div (2x + 1)$

9. $\dfrac{x^4 - 1}{x^2 - 1}$

10. $\dfrac{x^4 - 9}{x^2 + 3}$

Long Division W.S

Name:_____

Divide each of the polynomials using long division.

1. $(4x^2 - 9) \div (2x + 3)$

$2x-3$

2. $(x^2 - 4) \div (x + 4)$

$x+4-\frac{12}{x+4}$

3. $(2x^2 + 5x - 3) \div (x + 3)$

$2x-1$

4. $(2x^2 + 5x - 3) \div (x - 3)$

$2x+11+\frac{30}{x-3}$

5. $(3x^2 - 13x - 10) \div (x - 5)$

$3x+2$

6. $(3x^2 - 13x - 10) \div (x + 5)$

$3x-28+\frac{130}{x+5}$

7. $(11x + 20x^2 + 12x^3 + 2) \div (3x + 2)$

$4x^2 + 4x + 1$

8. $(12x^3 + 2 + 11x + 20x^2) \div (2x + 1)$

$6x^2 + 7x + 2$

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

$x^2 + 1$

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

$x^2 - 3$