ASSIGNMENT (Unit 1 / Day 5) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
**Day 2** – Dividing Polynomials using Long Division

**Divide each of the polynomials using long division.**

1) $\left(2x^{2}+ 5x-3\right)÷(x-3)$

2) $\frac{x^{2}- 28}{x-5}$

3) $\left(11x+20x^{2}+ 12x^{3}+ 2\right)(3x+2)^{-1}$

4) $\frac{2x^{4}+ 8x^{3}- 5x^{2}- 4x+2}{x^{2}+ 4x-2}$

5) $\left(x^{4}- 13x-42\right)÷(x^{2}- x-6)$

6) $\left(x^{4}+ 3x^{3}- 9\right)÷(x^{2}+ 3)$