

## EXTRA LONG DIVISION PROBLEMS

Perform the following division problems.

$$1. \frac{x^3 - x^2 - x + 10}{x + 2} = \boxed{x^2 - 3x + 5}$$

$$2. \frac{2x^3 - 22x + 12}{x - 3} = \boxed{2x^2 + 6x - 4}$$

$$3. \frac{x^4 + 10x^3 + 21x^2 - 13x + 30}{x + 6} = \boxed{x^3 + 4x^2 - 3x + 5}$$

$$4. \frac{8x^3 + 26x^2 - 36x + 9}{4x - 3} = \boxed{2x^2 + 8x - 3}$$

$$5. \frac{3x^5 - 10x^4 - 8x^3 - 7x^2 + 33x - 20}{x - 4} = \boxed{3x^4 + 2x^3 - 7x + 5}$$

$$6. \frac{4x^6 + 10x^5 + 8x^4 + 20x^3 - 10x^2 - 25x}{2x + 5} = \boxed{2x^5 + 4x^3 - 5x}$$