Polynomial division

Name: _____ Date: _____

6 questions | 13 marks

1. Divide $x^3 - 6x^2 + 11x - 6$ by $x - 1$. [2 marks]

2. Divide $2x^3 - 5x^2 + 4x - 3$ by $x - 2$. [2 marks]

3. Divide $x^4 - 16$ by $x^2 + 4$. [2 marks]

4. Divide $x^3 - 2x + 1$ by $x + 1$. [2 marks]

5. Divide $3x^2 + x - 2$ by $3x - 2$. [2 marks]

6. A student writes $x^3 + 1 = (x + 1)(x^2 - x) + 1$. Check the claim and correct the division. [3 marks]