

PRE-AP ALGEBRA 2

3B.4 CLASSWORK

For problems **1** and **2**, perform the indicated division to calculate $y = f(x)$. Use both

- a)** long division, and
- b)** synthetic division.

1)

$$f(x) = \frac{10x^3 + 59x^2 - 9x - 11}{x + 6}$$

2)

$$f(x) = \frac{28x^3 - 127x^2 - 71x + 30}{x - 5}$$