

Number:

Textbook Section:

Title:

1. Find the quotient and remainder using synthetic division.

$$\frac{3x^3 - 12x^2 - 9x + 1}{x - 5}$$

2. Divide using synthetic division.

$$\frac{2x^3 + 3x^2 - 5x - 2}{x + \frac{1}{2}}$$

3. Find the quotient and remainder using synthetic division.

$$\frac{-6x^4 + 25x^3 - 18x - 13}{x - \frac{3}{2}}$$

4. Can synthetic division be used here?

$$\frac{x^3 + 3x^2 + 4x + 3}{3x + 6}$$