

Algebra II

8-4

Synthetic Division

Divide using synthetic division.

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

$$11) \frac{2x^4 + x^3 - x - 2}{x + 1}$$

(from yesterday's
assignment)

$$26) \frac{x^5 - a^5}{x - a}$$

$$17) \frac{z^3 - 2z^2 + 4z - 5}{z - 2i}$$

Find the polynomial $Q(x)$
and the constant R .

$$19) 2x^3 + 5x^2 + 4 = (x + 3) \cdot Q(x) + R$$

Assignment: pg 370 1-22 all
