

Divide:

$$3 \overline{) 287}$$

$$x+3 \overline{) x^3 + 6x^2 + 5x - 12}$$

Synthetic Division

$$(x^3 + 6x^2 + 5x - 12) \div (x + 3)$$

$$\frac{3x^3 - 10x^2 + 2x - 5}{x - 2}$$

$f(x) = 2x^3 + 5x^2 - x - 96$ , one zero is at  $x = 3$ . Find all of the zeros.