

Sec. 11.3 Dividing Polynomials

Problem 1:

a. What is $(5x^3 - 10x^2 + 20x) \div 5x^2$?

b. $(4a^3 + 10a^2 + 3a) \div 2a^2$

Problem 2:

a. $(2x^2 - 19x + 24) \div (x - 8)$

$$(2m^2 - m - 3) \div (m + 1)$$

Problem 3:

The width and area of a rectangle are shown below. What is an expression for the length?

$$\boxed{A = x^2 + 3x - 18} \quad x - 3$$

Divide

a. $(h^3 - 4h + 12) \div (h + 3)$

b. $(-21x - 20 + 9x^2) \div (-1 + x)$