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MATH 1314 + MATH 0270
College Algebra with Foundations
Mr. Brice

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(continue) adding, subtracting, multiplying (polynomials)

(ex) $(2x-y)^3$

a b

$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

$(2x)^3 - 3(2x)^2(-y) + 3(2x)(-y)^2 - (-y)^3$

$8x^3 - 12x^2(-y) + 6xy + y$

$$\boxed{8x^3 + 12x^2y + 6xy + y}$$

webassign P03

19.) (A) Total Rectangle (Area = $l \times w$) − white rectangle (Area = $l \times w$) = (Area of shaded region)

$(2x)(2x+6) - (x)(x+4)$

$(4x^2 + 12x) - (x^2 + 4x)$

$4x^2 + 12x - x^2 - 4x$

$$\boxed{3x^2 + 8x}$$