2.2 – 2.3 Review Worksheet

Name: _____

1. Expand each expression and simplify

a) $3a^2b^3(5a^3b^5c^2)$

b) $(r-2)(r+9)$

c) $(y-3)(y+7)$

d) $(11+f)(6-f)$

e) $2(2x-3y)(4x+7y)$

f) $(2x+9)(3x-2)$

g) $(3x+4)^2$

h) $(2x-5)^2$

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

j) $5 - 4y(6 + 4y - 2y^2)$

k) $(5x + 1)(4x + 2) + 2(x - 5)(2x - 1)$

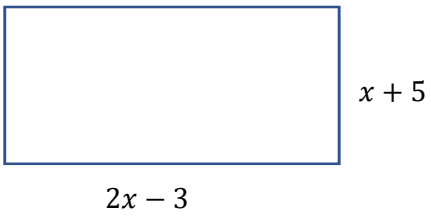
l) $(6x - 2)(4x + 2) - (x + 7)^2$

2. Find the error(s) in the multiplication. Write the correct solution.

$$(3g^2 + 4g - 2)(-g^2 - g + 4)$$
$$= -3g^4 - 3g^3 + 12g^2 - 4g^3 + 4g^2 + 8g + 2g^2 + 2g + 8$$
$$= -3g^4 + 5g^3 + 6g^2 + 10g + 8$$

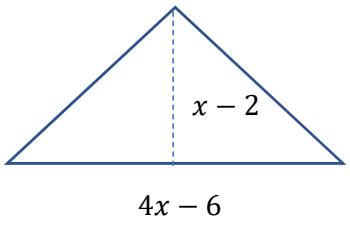
3. Determine the area of the rectangle

Area = (length)(width)



4. Determine the area of the triangle

Area = $\frac{1}{2}(base)(height)$



5. Each figure is a rectangle. Find a polynomial that represents the shaded area.