Name: _____ Date: _____

Multiply:

1. $4x(3x^2 + 4x - 8)$

2. $(x+3)(x-2)$

3. $(2x+3)(4x+1)$

4. $(3x^2+7)(5x^3-6)$

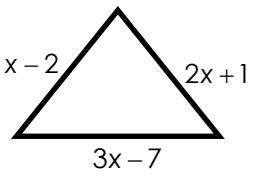
5. $(3x-6)(3x+6)$

6. $(x^3+x)(x^2+x-1)$

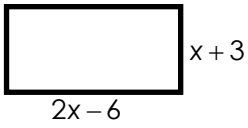
7. $(3x^2+2)(2x^2+3x-5)$

8. $(x-3)(5x^5-7x^3+1x^2+4)$

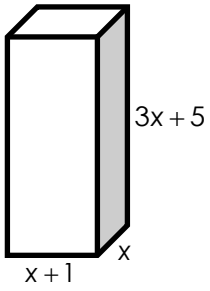
9. Perimeter:



10. Area:



11. Volume:



Using the following functions, perform the operations.

$f(x) = x^3 + 8x^2$ $g(x) = x^2 + 3x + 9$ $h(x) = x^3 - 2x^2 + x$ $j(x) = x - 4$

1. Find $j(x) \bullet f(x)$

2. Find $j(x) \bullet g(x)$

3. Find $f(x) \bullet g(x)$

4. Find $f(x) \bullet 2j(x)$

5. Find $j(x) \bullet h(x)$

6. Find $f(x) \bullet 3g(x)$

7. Find $f(x) \bullet h(x) \bullet j(x)$

8. Find $g(x) \bullet -2j(x)$

Review :

9. Convert to Recursive: $a_n = 2n - 14$

10. Solve for (m): $-8p + 2mn = 2p + 6$

11. Using a conversion chart from unit 3, convert 32 ft/sec to meters/min.