

Math 3H- Aug 24

- Calculator check
- Starter #2
- Questions on Homework
- Finish 1.1 Multiplying Polynomials
- Create September Calendar Math

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Homework Questions...

$$\textcircled{11} 7 - (3 - 6k + 7k^3) = 7k^4 - 7k^3 + 8k + 3$$

$$\begin{array}{r} 7k^4 - 0 = 7k^4 \\ 0 - 7k^3 = -7k^3 \\ 2k + 6k = 8k \\ 6 - 3 = 3 \end{array} \quad \boxed{7k^4 + 2k + 6}$$

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1.1 Multiplying Polynomials *add the exponent*

$$4d(5d+6) \quad x^2 \cdot y^2$$

$$4d \cdot 5d + 4d \cdot 6$$

$$20d^2 + 24d$$

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Example 1: $5r^2(5r^1 - 8)$

$$25r^3 - 40r^2$$

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Example 2: $(6p+7)(p-3)$

	6p	7
p	6p ²	7p
-3	-18p	-21

$$6p^2 + 7p - 18p - 21$$

$$\boxed{6p^2 - 11p - 21}$$

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Example 3: $(8b^2 + 5b + 4)(6b - 6)$

	6b	-6
8b ²	48b ³	-48b ²
5b	30b ²	-30b
4	24b	-24

$$48b^3 - 48b^2 + 30b^2 - 30b + 24b - 24$$

$$\boxed{48b^3 - 18b^2 - 6b - 24}$$

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EX 6) $g(x) = -4x$
 $f(x) = -x^2 + 3x$
 Find $g(x) \cdot f(x)$
 $-4x(-x^2 + 3x)$
 $4x^3 - 12x^2$

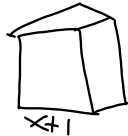
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EX 7) $f(x) = x + 3$
 $g(x) = x^2 - 3x$
 Find $f(x) \cdot g(x)$


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1st x
 2nd $x + 1$
 3rd $x + 2$

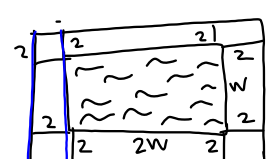
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Volume of a cube
 $V = l \cdot w \cdot h$

 $(x+1)(x+1)(x+1)$
 $x^3 + 3x^2 + 3x + 1$

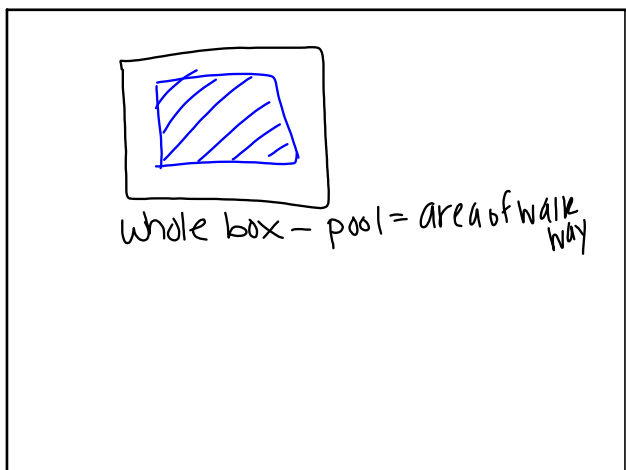
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(23) 
 $w = w$
 $l = w + 5$
 $w(w + 5) = 36$

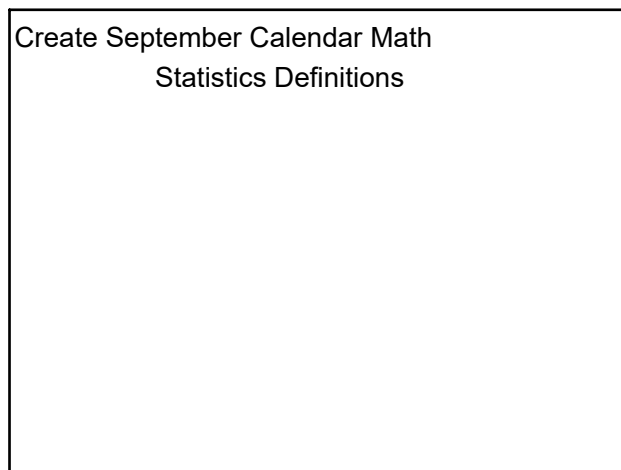
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(24) 
 $w = w$
 $l = 2w$
 Area including the walkway
 $(w+4)(2w+4)$
 $2w^2 + 12w + 16$
 Area of the pool
 $w(2w)$
 $2w^2$
 $(2w^2 + 12w + 16) - (2w^2) = 196$
 $12w + 16 = 196$

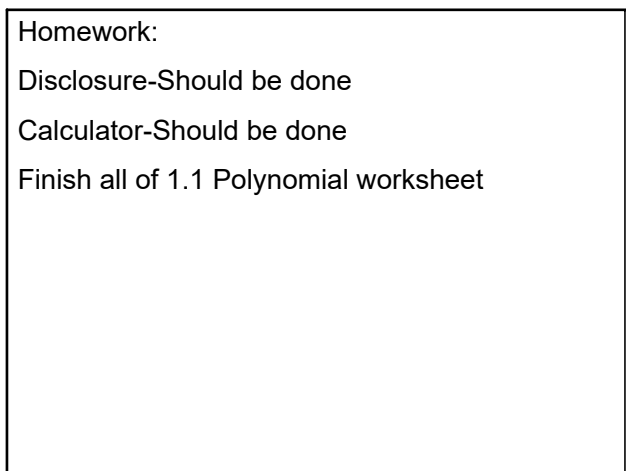
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