Math: Pre-Algebra Session #4

Combining Like Terms:

Combine the same variable and same exponent only!

$$5xy^4 + 2xy^4 = \boxed{7 \times y^4}$$

$$2a^3 + a^3 = 3a^3$$

$$7x + 4x - 3$$

$$8x - 2x + 4 - 1$$

$$3x - 10 + 17$$

$$-2(x-1) + x$$

$$9 - 3(2x + 4) + 4x$$

$$2(-3x+5) - 6(x-1)$$

Area = (length) x (width)



Perimeter = (length) + (width) + (length) + (width)



$$4x^2 + 3x - 2x^2 + 5x + 1$$

$$7 x^2 + 3 x^2 + 5x + 2 - 14$$

$$9 x^2 - 1 + 11x - 9 x^2 + x$$

$$-9 x(11x + 1) - x^{2} (90x)$$

$$4(3x + 2x) - 5 + 7$$

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

$$-5x(3x+4x) + x^2 + 9$$

$$7x + 4x - 3 = 11x - 3$$

 $8x + 2x + 4 - 1$
 $(8-2)x + 3 = 6x + 3$

$$2x - 3x = -1x = -x$$

$$2x - 3x = -2$$

$$2x - 3 \cdot 2 = -2$$

$$3x - 10 + 17 = 3x + 7$$

 $3(x+1) - 2$
 $3x + 3 - 2 = 3x + 1$

$$-2(x-1) + x$$

$$-2x + 2 + 1x$$

$$= -x + 2$$

$$9-3(2x+4)+4x$$

$$= 9-6x-12+4x$$

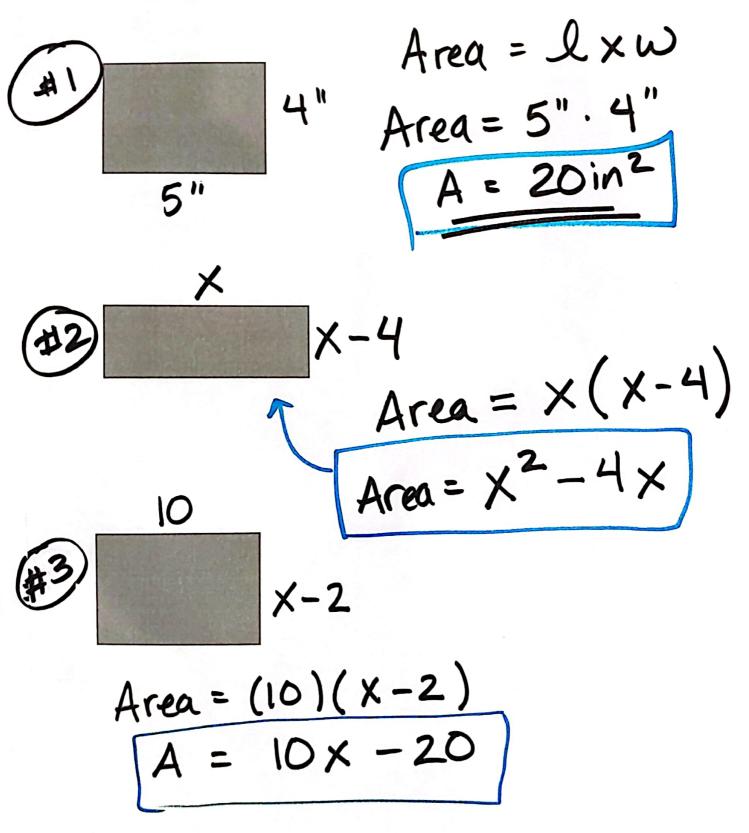
$$= -2x-3$$

$$2(-3x+5)-6(x-1)$$

$$=-6x+10-6x+6$$

$$=[-12x+16]$$

Area = (length) x (width)



$$P = 5 + 4 + 5 + 4$$
 $P = 18 \text{ inches}$

$$x+2$$
 $P = (x+2) + x$
 $+ (x+2) + x$
 $P = 4x + 4$

$$\frac{2x}{P} = 2x + x + 2x + x$$

$$P = 6x$$

$$4x^{2} + 3x^{2} - 2x^{2} + 5x^{2} + 1$$

$$(4-2)x^{2} + (3+5)x + 1$$

$$= 2x^{2} + 8x + 1$$

$$\frac{7x^2 + 3x^2 + 5x + 2 - 14}{410x^2 + 5x - 12}$$

$$9x^{2}-1+11x-9x^{2}+x$$
= $12x-1$

$$-9 \times (11 \times +1) - x^{2} (90 \times)$$

$$= -99 \times^{2} - 9 \times -90 \times^{3}$$

$$= -90 \times^{3} - 99 \times^{2} - 9 \times$$

$$4(3x+2x)-5+7$$

$$= 4(5x)+2$$

$$= 20x + 2$$

$$6x(1x^{2}-4x^{2}) + 3(5y-y)$$

$$= 6x(-3x^{2}) + 3(4y)$$

$$= -18x^{3} + 12y$$

$$-5x(3x+4x)+x^{2}+9$$

$$-5x(7x)+x^{2}+9$$

$$-35x^{2}+x^{2}+9$$

$$=-34x^{2}+9$$

$$2x^{3}(5+x7x^{3})+x$$

$$=2x^{3}(5+7x^{4})+x$$

$$=10x^{3}+14x^{7}+x$$

$$=14x^{7}+10x^{3}+x$$

$$|00 \times (9 \times + 2y) - 17 \times$$

$$= |900 \times | + 200 \times | -17 \times$$

$$5x^{2}(12x^{3}-3) 3x - 9x$$

$$=(60x^{5}-15x^{2})3x'-9x$$

$$=(80x^{6}-45x^{3}-9x)$$