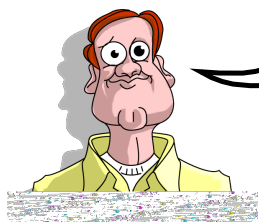


I have to share  
with my  
5  
sisters!

# Multiplication and Division of a Polynomial by a Constant

What size  
pizza  
would  
you like?



Triple  
the  
anchovies!

Things you already know!!

$$4 \times 5 = 20$$

$$(4)(5) = 20$$

$$4(5) = 20$$

Things you need to know :)

$$(4)(m) = 4m$$

$$6(z) = 6z$$

$$4(6w)$$

$$24w$$

$$(7)(x)(y)$$

$$7xy$$

Do you notice the difference?

$$2(x)(y)$$
$$= 2xy$$

$$2(x + y)$$
$$2x + 2y$$

$$4(w^2 + v)$$

$$4w^2 + 4v$$

$$\begin{aligned} & 5(x - 2) + (5x - 3) - (5x + 7) \\ &= \boxed{5x} \ominus 10 \oplus \boxed{5x} \ominus 3 \ominus \boxed{5x} \ominus 7 \\ &= 5x - 20 \checkmark \end{aligned}$$

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

$$\boxed{-1x} + 1 \quad \boxed{+6x} - 8 \quad \boxed{+6x} + 1$$

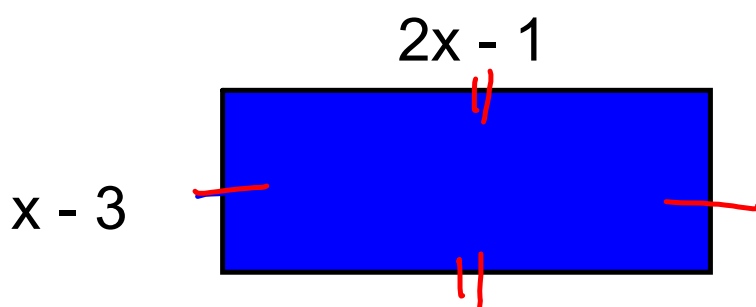
$$= 11x - 6$$

$$2(x - 2) - 1(5x - 3) + 3(3x - 8)$$

$$2x - 4 - 5x + 3 + 9x - 24$$

$$= +6x - 25$$





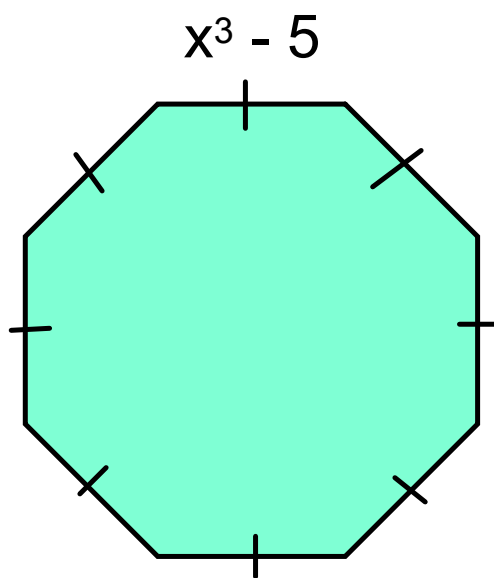
$$(x-3) + (x-3) + (2x-1) + (2x-1)$$

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

$$\boxed{2x} - 6 + \boxed{4x} - 2$$

$$= 6x - 8$$

$$8(x^3 - 5)$$
$$= 8x^3 - 40$$



Hint!(words)

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The Ultimate!

$$= 24w^2 - 28p + 44$$

Pg. 235  
#8, 12, 13  
Pg. 247  
9