

10/9

Unit 2: Review

Tuesday, October 09, 2012
10:51 AM

① find the sum $(x^2 + 3x + 1)$ and $(2x^2 - x - 4)$ CLT

$$3x^2 + 2x - 3$$

② Multiply. $(5m^2)(-2m)(6m^4) = -60m^7$

③ From $-3x^2 - 4x - 10$ subtract $6x^2 - 10x + 9$

$$\begin{array}{r} -6x^2 + 10x - 9 \\ -3x^2 - 4x - 10 \\ \hline -9x^2 + 6x - 19 \end{array}$$

— change signs

④ Divide $8x^3 - 14x^2 + 2x$ by $-2x$

~~xxx~~
* $\frac{8x^3}{-2x} \quad \frac{-14x^2}{-2x} \quad \frac{2x}{-2x} \Rightarrow -4x^2 + 7x - 1$

⑤ Combine like terms.

$$16m^3 + 4m - 7 + 10m^3 - 6m + 9$$

$$26m^3 - 2m + 2$$

⑥ find the product $(n+6)$ and $(n-7)$ FOIL "box"

	n	$+6$
n	n^2	$6n$
-7	$-7n$	-42

$$n^2 - 7n + 6n - 42$$

$$n^2 - n - 42$$

$$n^2 - n - 42$$

⑦ perimeter: sides of \triangle are $3x-1$, $5x+2$, $x-7$
CLT

⑧ Simplify $-3(4x - 6) + 9x$

$$\frac{-12x + 18 + 9x}{-3x + 18}$$

- (9) Perimeter of a SQUARE is $24x + 40$, find one side of the SQ.

$$\frac{24x + 40}{4} = \frac{24x}{4} + \frac{40}{4} = 6x + 10$$

4 sides →

- (10) 34,000,000 would be 3.4×10^n , find n .
- $n = 7$

- (11) Find the area of rectangle, sides are $(x-5)$ ^{and} $(x+9)$
- l.w

$$(x-5)(x+9) \text{ FOIL/Box}$$

$$x^2 + 9x - 5x - 45$$

$$x^2 + 4x - 45$$

(12)

$$x^0 + 6(2x)^0$$

$$\downarrow \quad \downarrow$$

$$1 + 6(1)$$

$$1 + 6$$

$$7$$

(13)

$$5x^0$$

$$\downarrow$$

$$5 \cdot 1$$

$$5$$

(14) $7p^2 - (3p^2 + 5) \Rightarrow 7p^2 - 3p^2 - 5$

$= 4p^2 - 5$

change signs

(15) $(-4m^3)^2 \Rightarrow (-4m^3)(-4m^3) = 16m^6$

6. 1-2 . 1 .

$$(6) \quad 4^{-2} \Rightarrow \frac{1}{4^2} = \frac{1}{16}$$