

11-20-19

Cluster 1: Simplify the polynomials.

1. $2(x^5 - 6x^3 + x^2 + 11x - 4) + (3x^3 + 7x^2 + 3) + (x^5 + 2x^2 + 5x)$

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

Cluster 2: Solve and graph the equation

3. $4x - 8 = 2(x + 9)$

Cluster 3: Solve and graph the inequality

4. $3x + 8 > 25$

5. $-2x - 15 > 7$ or $9x + 4 \geq 22$

Cluster 1: Simplify the polynomials.

1. $2(x^5 - 6x^3 + x^2 + 11x - 4) + (3x^3 + 7x^2 + 3) + (x^5 + 2x^2 + 5x)$

$2x^5 - 12x^3 + 2x^2 + 22x - 8 + 3x^3 + 7x^2 + 3 + x^5 + 2x^2 + 5x$

$(2x^5 + x^5) + (-12x^3 + 3x^3) + (2x^2 + 7x^2 + 2x^2) + (22x + 5x) + (-8 + 3)$

$3x^5 - 9x^3 + 11x^2 + 27x - 5$

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

$8x^3 - 6x^2 + 36x^2 - 27x$

$8x^3 + 30x^2 - 27x$

Cluster 2: Solve and graph the equation

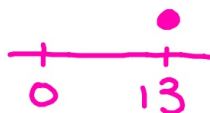
3. $4x - 8 = 2(x + 9)$

$$\begin{array}{r} 4x - 8 = 2x + 18 \\ -2x \quad -2x \\ \hline \end{array}$$

$$\begin{array}{r} 2x - 8 = 18 \\ +8 \quad +8 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{26}{2}$$

$$x = 13$$



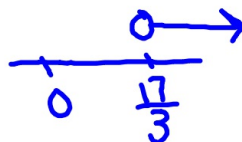
Cluster 3: Solve and graph the inequality

4. $3x + 8 > 25$

$$\begin{array}{r} 3x + 8 > 25 \\ -8 \quad -8 \\ \hline \end{array}$$

$$\frac{3x}{3} > \frac{17}{3}$$

$$x > \frac{17}{3}$$



5. $-2x - 15 > 7$ or $9x + 4 \geq 22$

$$\begin{array}{r} -2x - 15 > 7 \\ +15 \quad +15 \\ \hline -2x > 22 \\ -2 \quad -2 \\ \hline \end{array}$$

$$\begin{array}{r} 9x + 4 \geq 22 \\ -4 \quad -4 \\ \hline 9x \geq 18 \\ 9 \quad 9 \\ \hline \end{array}$$

$$x < -11 \quad \text{or} \quad x \geq 2$$



Test Scores

A 28 - 25.5

B 25 - 22.5

C 22 - 20

D 19.5 - 17

F 16.5 - 0

You were handed a progress report. Make yourself a to-do list of **3** things you need to do for this class to get yourself in a good position for the final. Be specific! Some ideas...

- Complete missing summary sheets
- Take a test/quiz that is missing
- Study for final
- Complete study guide

You have the rest of the class to work on your study guide. Remember, this is **due at the time of your final**. All questions must be completed! I will be signing off on your progress towards the completion every day.