

Flashback #4 - Answers

1.
$$\begin{array}{c|c} x & y \\ \hline 1 & 2 \\ 2 & 3 \\ 3 & 4 \\ 4 & 5 \end{array} \rightarrow +1 \rightarrow y = 1x + 1$$

$$\begin{array}{c|c} x & y \\ \hline 0 & 5 \\ 1 & 3 \\ 2 & 1 \\ 3 & -1 \end{array} \rightarrow -2 \rightarrow y = -2x + 5$$

2. Estimate $-2.56 + 6.7 \div 1.3$

↓
 $\sim -3 + 7 \div 1$
 $\sim -3 + 7$
 ~ 4

3. $\left(\frac{2}{3}\right)^2 + \left(\frac{+2}{+3}\right)^3 + \frac{1}{3} \div \frac{2}{5}$

$\frac{4}{9} + \frac{8}{27} + \frac{1}{3} \times \frac{5}{2}$

$\frac{6 \times 4}{6 \times 9} + \frac{8 \times 2}{27 \times 2} + \frac{5 \times 1}{6 \times 1}$

$\frac{24}{54} + \frac{16}{54} + \frac{45}{54} \rightarrow \frac{85}{54}$

4. Sides are all = BUT angles not same
 \therefore NOT similar

5. $\frac{1 \text{ cm}}{2834.7 \text{ Km}} = \frac{4.5 \text{ cm}}{x}$

$x = 4.5 (2834.7)$

$x = 12756.15 \text{ Km}$

6. $-\frac{6}{4} \quad \begin{array}{l} 3 \times 2 \uparrow \\ -2 \times 2 \downarrow \end{array}$ move negative to top

$-3 \frac{5}{8 \times 9} \quad -3 \frac{7}{9 \times 8}$

$-3 \frac{45}{72} > -3 \frac{56}{72}$

$-\frac{6}{4} \boxed{=} -\frac{6}{4}$

write as equivalent fractions - they have same num/den

↑ smaller because for the to left on number line

$$7. \quad 5(2x+4) > 2(7x+4)$$

$$10x+20 > 14x+8$$

$$\begin{array}{r} -10x \\ -10x \end{array}$$

$$20 > 4x+8$$

$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$\frac{12}{4} > \frac{4x}{4}$$

$$3 > x \text{ or } x < 3$$

B ✓

F none

S zero pairs

D



check algebra

$$5(2 \cdot 3 + 4) \quad ; \quad 2(7 \cdot 3 + 4)$$

$$5(6 + 4) \quad ; \quad 2(21 + 4)$$

$$5(10) \quad ; \quad 2(25)$$

$$50 \quad ; \quad 50$$

same ✓

check > symbol

x could be 1

$$5(2 \cdot 1 + 4) > 2(7 \cdot 1 + 4)$$

$$5(2 + 4) > 2(7 + 4)$$

$$5(6) > 2(11)$$

$$30 > 22$$

true ✓

8. a) interpolate - estimate between points - Yes

ex. @ 35 kWh → ~\$200

extrapolate - extend pattern past last dot Yes

ex. @ 80 kWh → ~\$475

b) 45 kWh ≐ \$260

c) \$450 ≐ 75 kWh

$$9. \quad (7x^2 - x + 2) - (x^2 + 5x - 3) + 4(x^2 - 1)$$

$$7x^2 - x + 2 - x^2 - 5x + 3 + 4x^2 - 4 \quad \text{B}$$

$$7x^2 - x^2 + 4x^2 \quad -x - 5x \quad +2 + 3 - 4 \quad \text{S}$$

$$10x^2 - 6x + 1$$

a) coefficients = 10

b) constant = +1

c) trinomial

$$10 \quad -4^2 = -(4 \cdot 4) = -16$$

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