ANSWER KEY:

- 1. 0.4
- 2. 0.6
- 3. -52000

4. a) link:

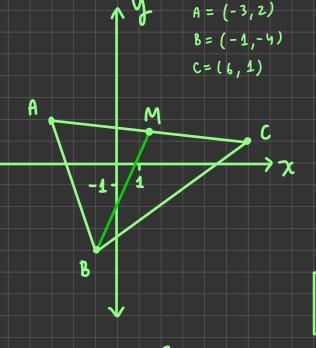
https://katskreativity.github.io/space-escape/29-5829.html

- b) 29
- 5. 8.6
- 6. 58.2
- 7. true, 1,-6
- 8. link:

https://katskreativity.github.io/space-escape/1-8-731.html

9. ANSWER: THANDS!

problem # 1, chapters 2 & 3



Median from B to AC
$$M = \left(\frac{-3+6}{2}, \frac{2+1}{2}\right)$$

$$M = \left(\frac{3}{2}, \frac{3}{2}\right)$$

$$m_{BM} = \frac{\frac{3}{2} - (-4)}{\frac{3}{2} - (-4)}$$

$$\frac{\frac{3}{2} + \frac{8}{2}}{\frac{3}{2} + \frac{2}{2}} = \frac{11}{5}$$

$$y = \frac{11}{5} \times + b, \quad \text{sub in } B = (-1, -4):$$

$$-4 = \frac{11}{5} (-1) + b$$

$$b = -4 + \frac{11}{5}$$

$$= -\frac{20}{5} + \frac{11}{5}, \quad \text{sum of m}$$

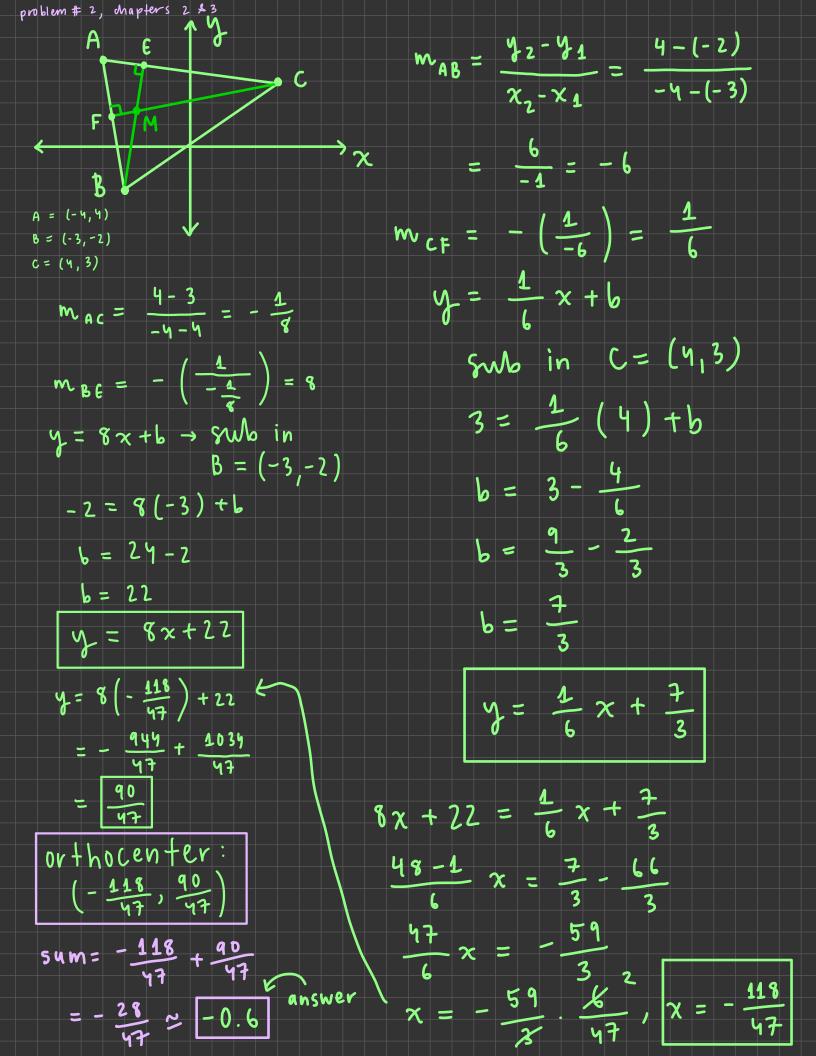
$$= \frac{11}{5} \times -\frac{9}{5}$$

$$y = \frac{11}{5} x - \frac{9}{5}$$

$$sum \quad 0f \quad m \quad and \quad b$$

$$= \frac{11}{5} - \frac{9}{5} = \frac{2}{5}$$

1 answer



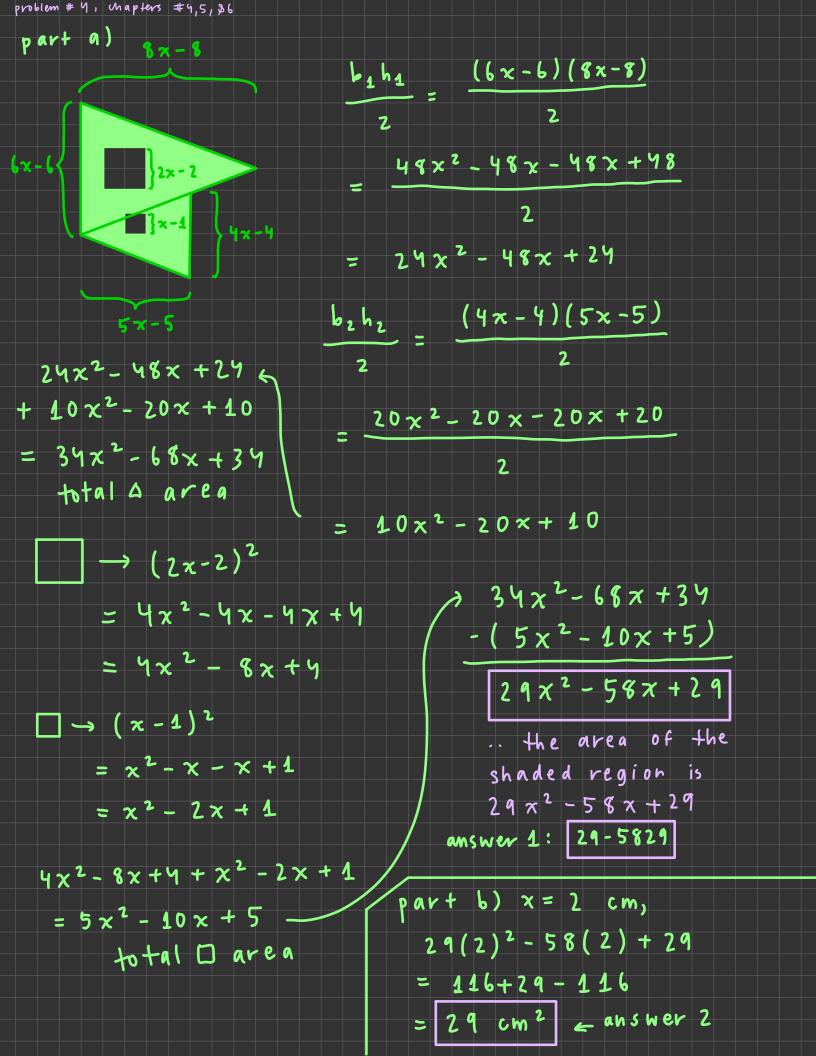
problem # 3, chapters 4,5,86 $(4x-7)^{2} + (2x+1)^{2}$ $= 16x^{2} - 2(4)(7)x + 49$ $+ 4x^{2} + 2(2)(1)x + 1$ $= 16x^{2} + 4x^{2} - 2(28)x + 4x$ + 49 + 1 $= 20x^{2} - 56x + 4x + 50$

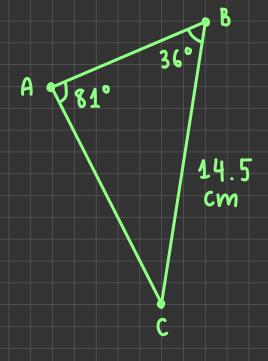
$$= 20 \times^2 - 52 \times + 50$$

product:

$$20.-52.50$$

= -52000 \(= answer





$$\frac{\sin (81^{\circ})}{14.5} = \frac{\sin (36^{\circ})}{AC}$$

$$AC \left(\frac{\sin (81^{\circ})}{14.5}\right) = \sin (36^{\circ})$$

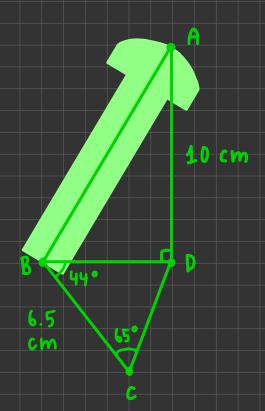
$$\frac{\sin (81^{\circ})}{14.5}$$

$$AC = \frac{\sin (36^{\circ})}{14.5}$$

$$AC = \frac{\sin (81^{\circ})}{14.5}$$

$$AC \sim 8.6 \text{ cm}$$

:. the length of AC is 8.6 cm.



$$tan(\angle ABD)$$

$$= \underbrace{AD}_{BD}$$

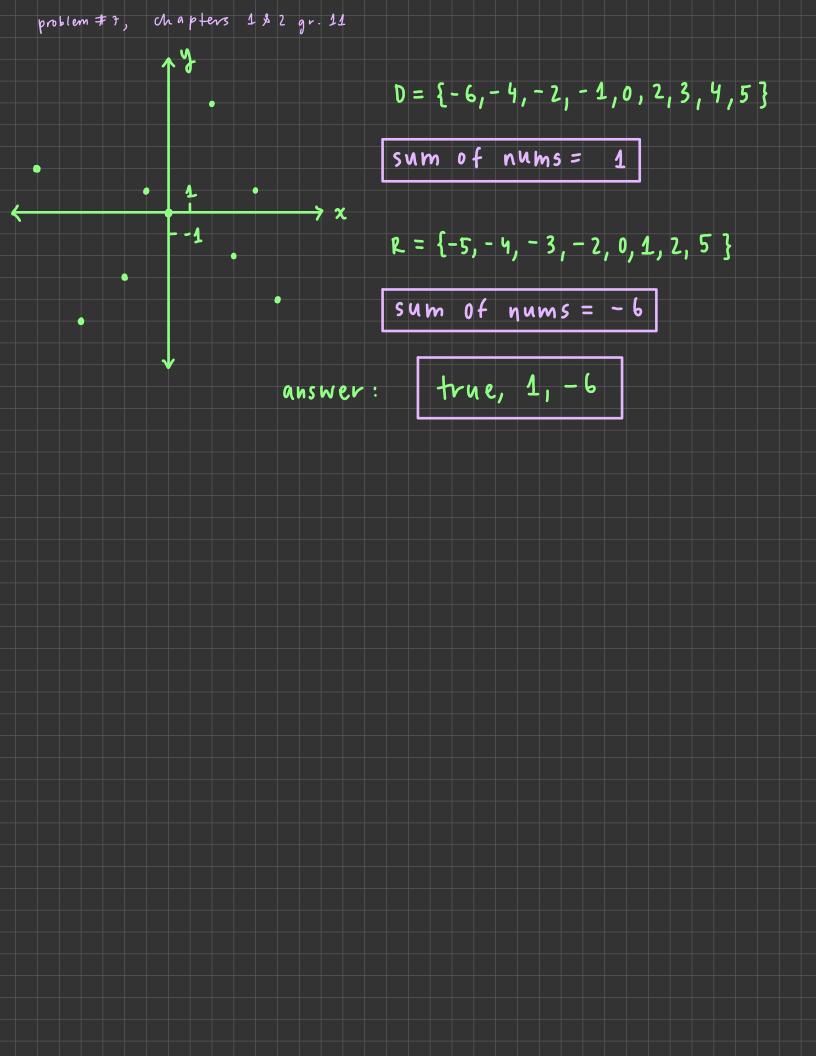
$$= \underbrace{10}_{62}$$

$$tan^{-1}(\underbrace{\frac{10}{62}}) = \angle ABD$$

$$8D = \frac{\sin(65^{\circ})}{\frac{\sin(71^{\circ})}{6.5}}$$

$$BD \simeq 6.2 \text{ cm}$$

: the angle of the toggle switch compared to the board is approximately 58.2°.



problem #8, Mapters 1 & 2 gr. 11 $k^{2} + 6k - 7 + k^{2} + 7k - 9$) take reciprocal k²+7k-k-7 k²+8K-3k-24) k ≠ 3,-8 k2-3k+7k-21 k2-k+8k-8 14-1)[k++) (k-3)[k+8) 7 k + -8,1 = - (k+7)(k-3) (k+8)(k-4) -= 11 RESTRICTIONS: | + + -8,-7,3,1 C answer