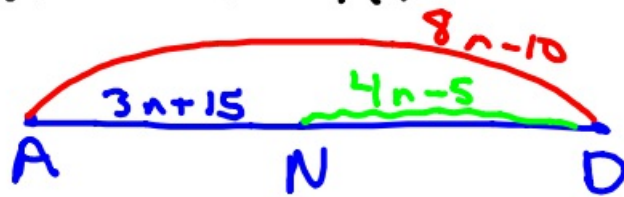


9-7-18 5<sup>th</sup> Geo

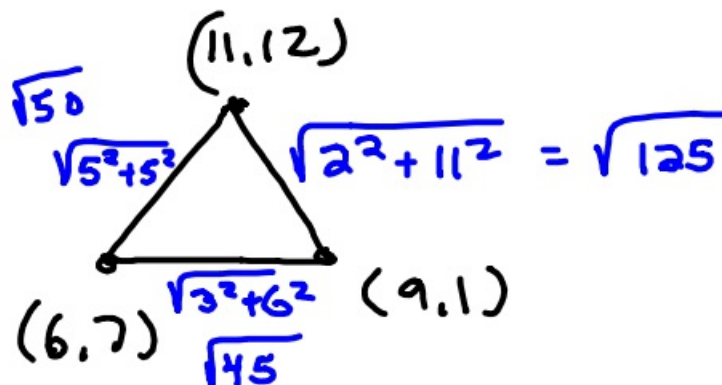
- ③ Let  $N$  be the midpoint of  $\overline{AD}$  with  $AD = 8n - 10$  and  $AN = 3n + 15$ .  
What is  $n$ ?



$$\begin{array}{r} 3n+15 = 4n-5 \\ -3n \quad -3n \\ \hline 15 = n-5 \\ +5 \quad +5 \\ \hline 20 = n \end{array}$$

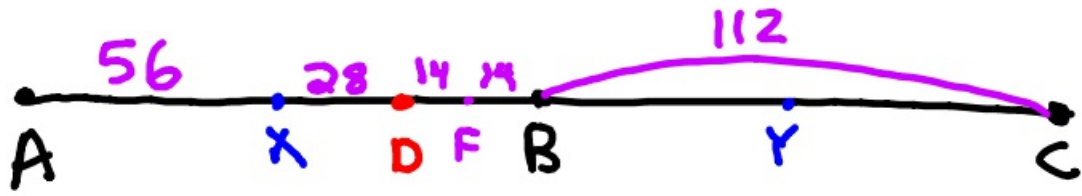
Bonus 1

What is the perimeter of a  $\triangle$  with vertices of  $(6,7)$   $(9,1)$   $(11,12)$



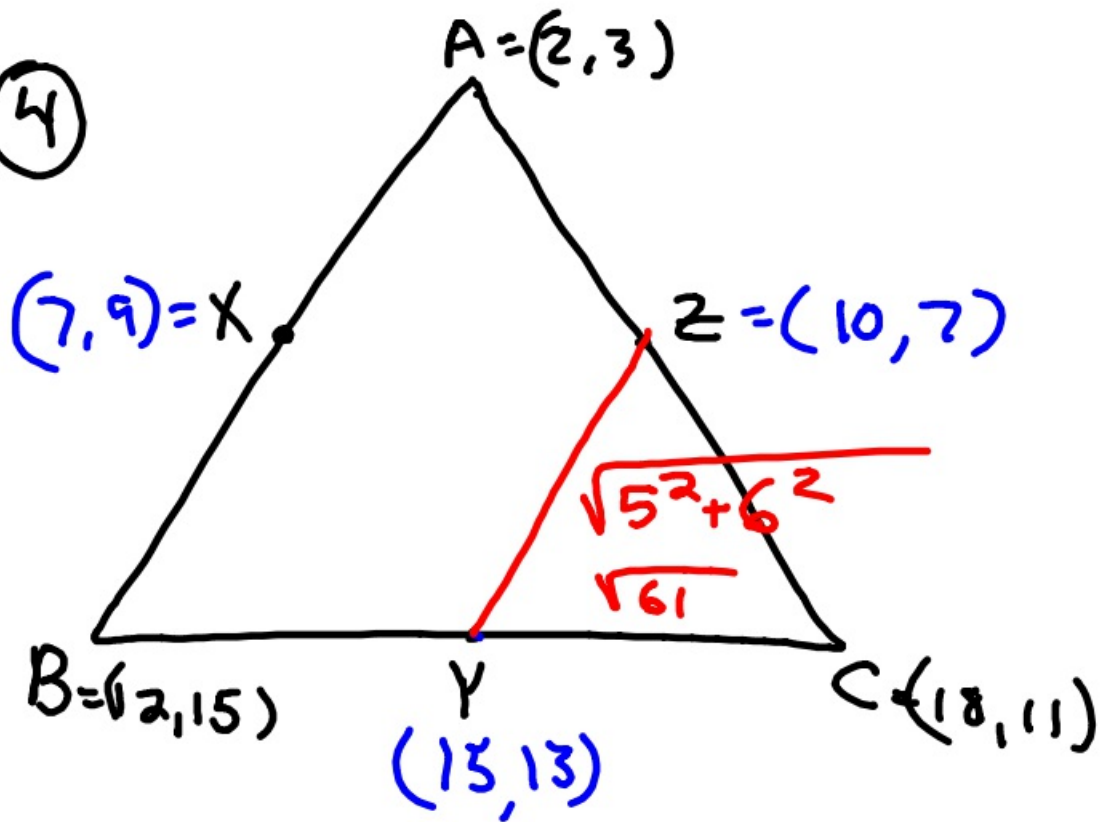
$$\sqrt{50} + \sqrt{45} + \sqrt{125}$$

③



224

④



$$\textcircled{2} \quad AB = 15$$

$$A = (3, 4)$$

$$B = (15, y)$$

$$D = \sqrt{\Delta x^2 + \Delta y^2}$$

$$15^2 = \sqrt{12^2 + (y-4)^2}^2$$

$$225 = 12^2 + (y-4)^2$$

$$225 = 144 + (y-4)^2$$

$$\sqrt{81} = \sqrt{(y-4)^2}$$

$$\pm 9 = y - 4$$

$$13 \quad -5$$

$\textcircled{40}$

$$a^2 + b^2 = c^2$$

↑  
biggest

$$1^2 + 2^2 = 3^2?$$

$$11^2 + 48^2 = 61^2?$$

$$9^2 + 12^2 = 16^2?$$

$$7^2 + 24^2 = 25^2? \text{ Yes}$$

✓

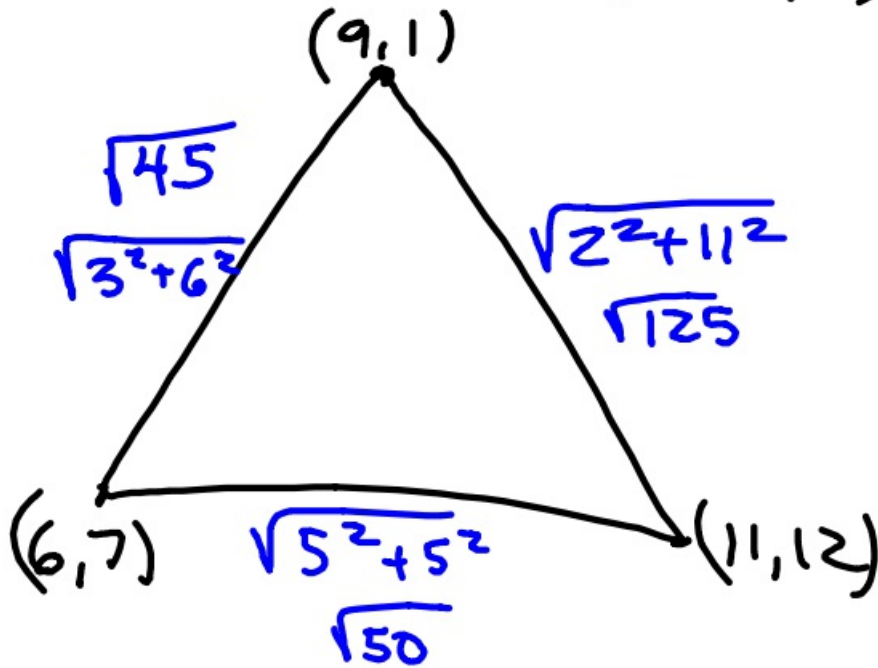
+

9-7-18 6<sup>th</sup> Geo

Bonus

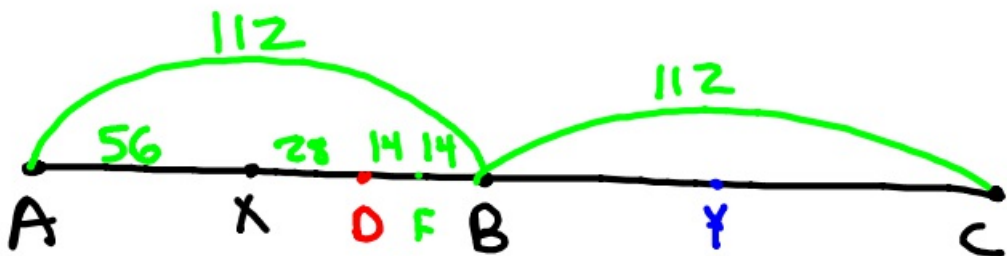
① Perimeter of  $\triangle$  with vertices of

(6,7) (9,1) (11,12)

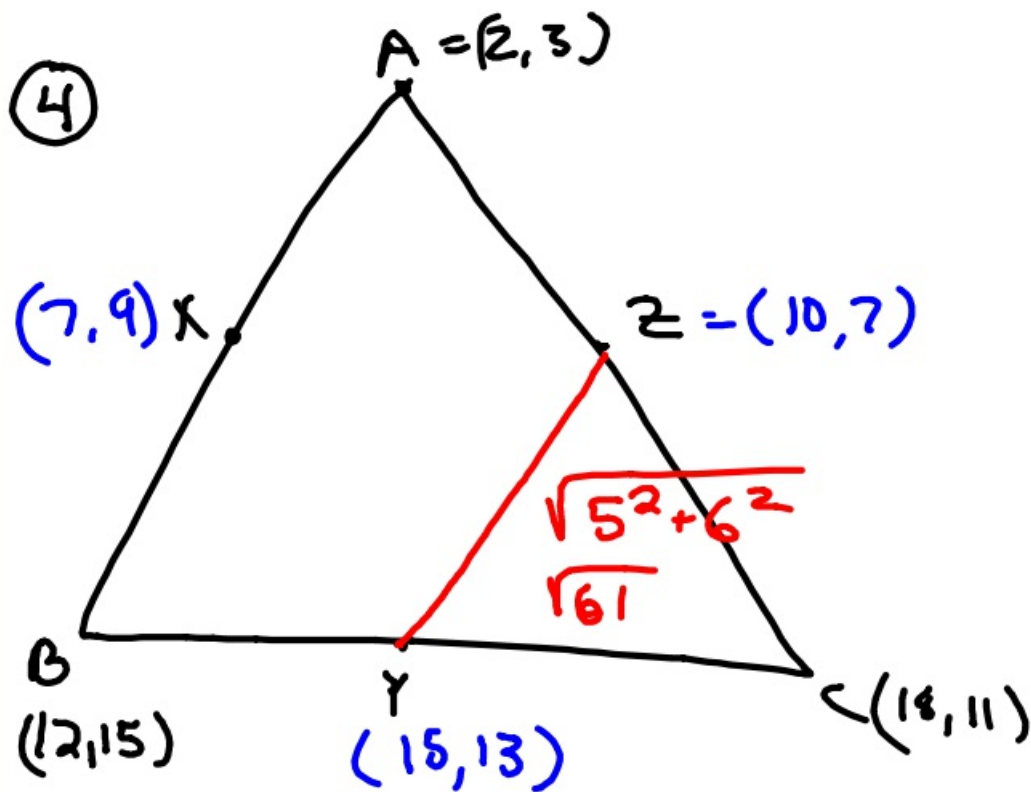


$\sqrt{45} + \sqrt{50} + \sqrt{125} =$

③



224



②  $AB = 15$

$$A = (3, 4)$$

$$B = (15, y)$$

$$D = \sqrt{\Delta x^2 + \Delta y^2}$$

↓

$$15 = \sqrt{12^2 + (y-4)^2}$$

$$15 = \sqrt{144 + \boxed{9}^2}$$

$$y - 4 = \pm 9$$

$$y = 13 \quad y = -5$$

40

$$a^2 + b^2 = c^2$$

$$1^2 + 2^2 = 3^2 ? \quad \times$$

$$11^2 + 48^2 = 61^2 \quad \times$$

$$9^2 + 12^2 = 16^2 \quad \times$$

$$7^2 + 24^2 = 25^2 \quad \checkmark$$