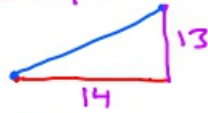


11-8-19 2nd Geo

① $(-8, -2)$ $(6, 11)$

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{11 - (-2)}{6 - (-8)} = \frac{13}{14}$$

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



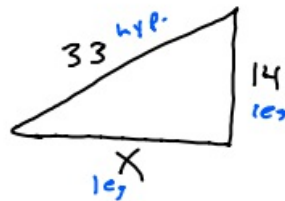
$$\sqrt{14^2 + 13^2}$$

$$\sqrt{196 + 169} = \sqrt{365} \approx 19.1$$

$$\text{midpoint} = \left(\frac{-8+6}{2}, \frac{-2+11}{2} \right)$$

$$(-1, 4.5)$$

⑫



$$leg^2 + leg^2 = hyp^2$$

$$x^2 + 14^2 = 33^2$$

$$x^2 + 196 = 1089$$

$$\begin{array}{r} x^2 + 196 = 1089 \\ -196 \quad -196 \\ \hline \end{array}$$

$$\sqrt{x^2} = \sqrt{893}$$

$$x \approx 29.9$$

⑧ 11, 19, 24 $11^2 + 19^2 = 24^2$ ✗

45, 28, 53 $45^2 + 28^2 = 53^2$ ✓

20, 16, 11

15, 17, 11

$$\textcircled{6} \quad C = (4, 4) \quad \overline{CX} \\ X = (-1, 6) \quad m = \frac{\Delta y}{\Delta x} = \frac{6-4}{-1-4}$$

$$m = \frac{2}{5}$$

$$\perp m = \frac{5}{2}$$

$$\textcircled{A} \quad (3, 4) \quad (1, -1)$$

$$m = \frac{\Delta y}{\Delta x} = \frac{4 - (-1)}{3 - 1} = \frac{5}{2} \quad \checkmark$$

$$\frac{-1 - 4}{1 - 3} = \frac{-5}{-2} = \frac{5}{2}$$