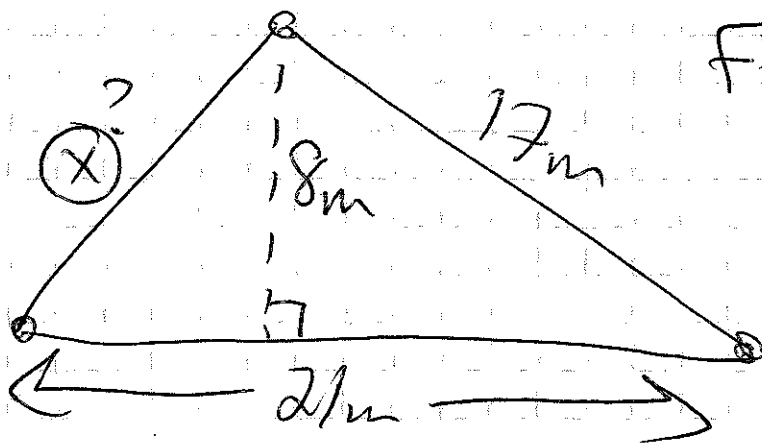


(8,3) p. 446 #3a)

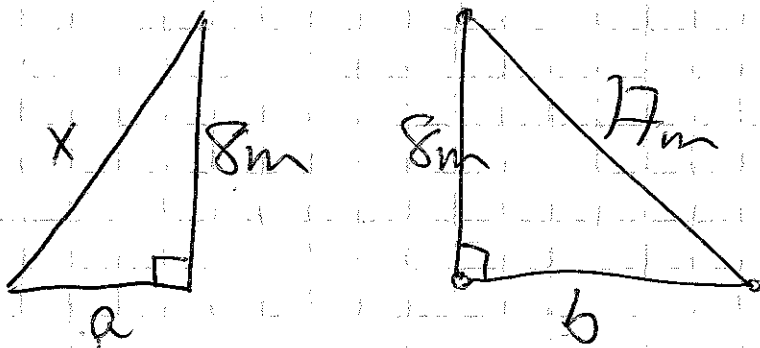
①



Find missing length!
let $x = ?$

②

Separate Δ into 2 Δ s.



③

$$a + b = 21$$

④

$$a + 15 = 21$$

$$a = 21 - 15$$

$$a = 6$$

⑤

$$8^2 + b^2 = 17^2$$

$$64 + b^2 = 289$$

$$b^2 = 289 - 64$$

$$b^2 = 225$$

$$b = \sqrt{225} = 15$$

⑥

$$6^2 + 8^2 = x^2$$

$$36 + 64 = 100 = x^2$$

$$x = \sqrt{100}$$

$$x = 10m$$

\therefore the missing length is 10m.