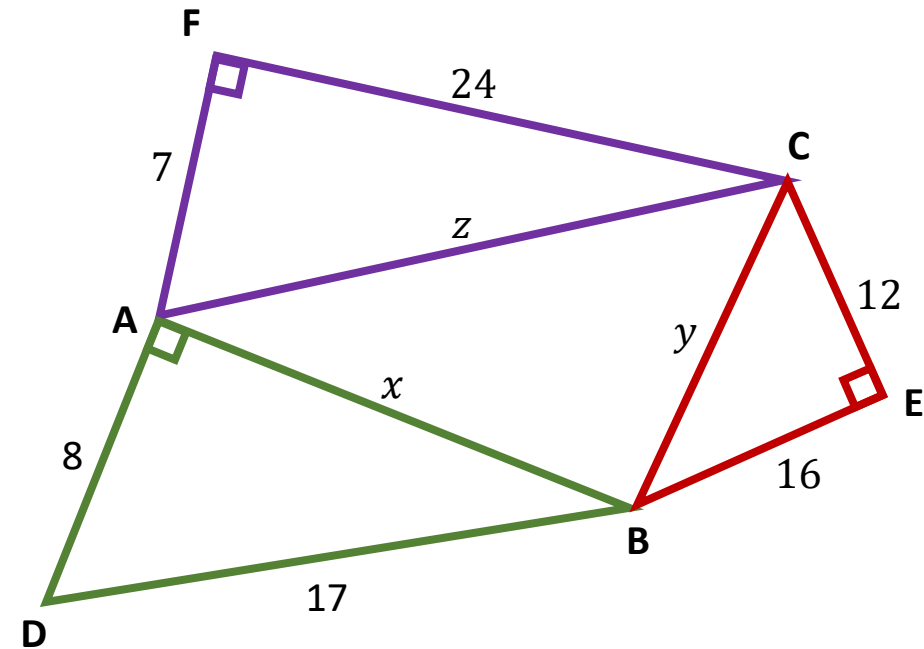


Revision Ex. Pg. 105 (No. 5)



a.) Calculate x , y and z .

Calculate x

$$17^2 = 8^2 + x^2 \quad \text{Pythag}$$

$$289 = 64 + x^2$$

$$289 - 64 = x^2$$

$$225 = x^2$$

$$15 = x$$

Calculate y

$$y^2 = 12^2 + 16^2 \quad \text{Pythag}$$

$$y^2 = 144 + 256$$

$$y^2 = 400$$

$$y = 20$$

Calculate z

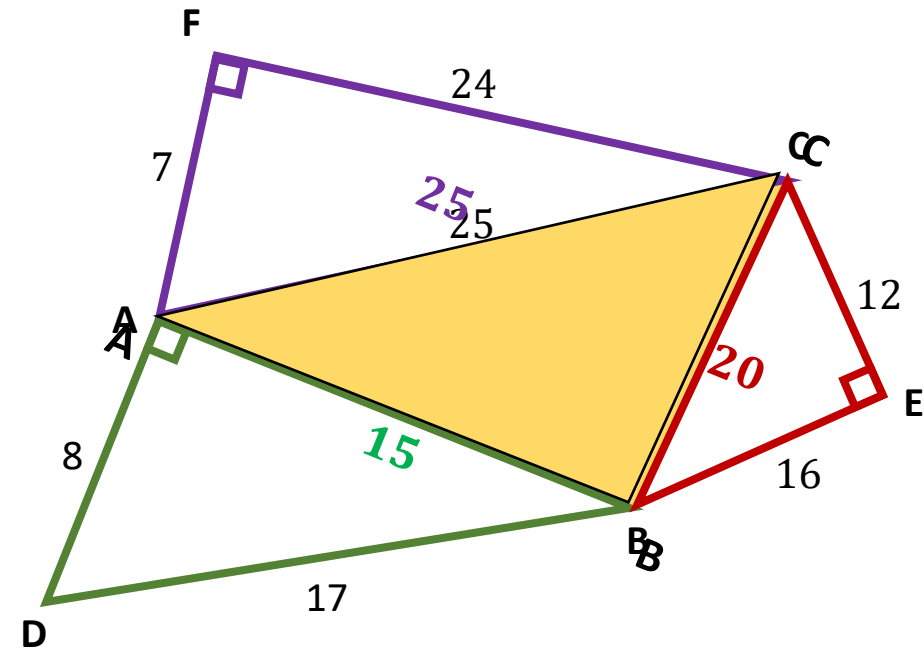
$$z^2 = 7^2 + 24^2 \quad \text{Pythag}$$

$$z^2 = 49 + 576$$

$$z^2 = 625$$

$$z = 25$$

Revision Ex. Pg. 105 (No. 5)



b.) Classify $\triangle ABC$

All sides are different lengths \therefore Scalene Triangle

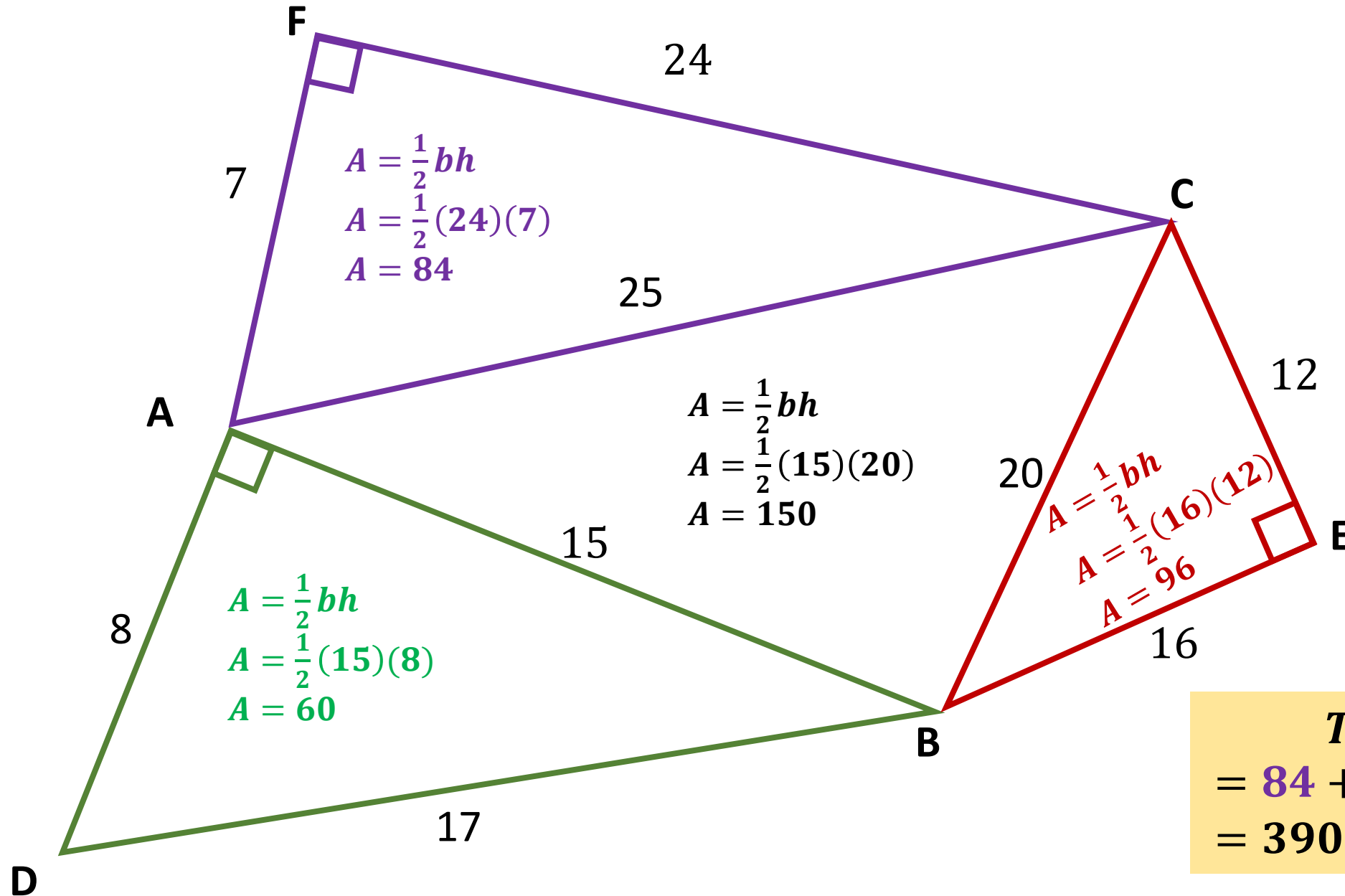
Is it right angled? Is $side^2 + side^2 = Hypotenuse^2$

$$20^2 + 15^2 = 25^2$$

$$400 + 225 = 625$$

$$625 = 625$$

\therefore Right-Angled Scalene Triangle



TOTAL AREA
 = **84** + **60** + **150** + **96**
 = **390 units²**