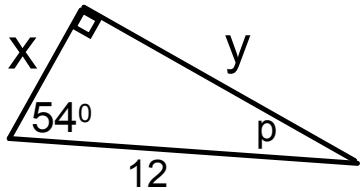


Solve the following triangles to one decimal place.



$$p = 180 - 90 - 54 \\ = 36^\circ$$

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\sin 54^\circ = \frac{y}{12}$$

$$y = 12 \sin 54^\circ \\ = 9.7$$

$$a^2 = c^2 - b^2$$

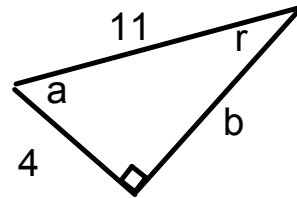
$$x^2 = 12^2 - 9.7^2$$

$$= 144 - 94.09$$

$$= 49.91$$

$$x = \sqrt{49.91}$$

$$= 7.06$$



$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\sin r = \frac{4}{11}$$

$$r = \sin^{-1} \frac{4}{11} \\ = 21^\circ$$

$$a = 180 - 90 - 21 \\ = 69^\circ$$

$$a^2 = c^2 - b^2$$

$$b^2 = 11^2 - 4^2$$

$$= 121 - 16$$

$$= 105$$

$$b = \sqrt{105}$$

$$= 10.2$$