

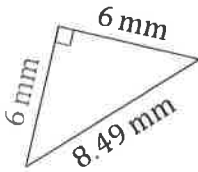
Pythagorean Theorem (A) Answers

Name: _____

Date: _____

Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.

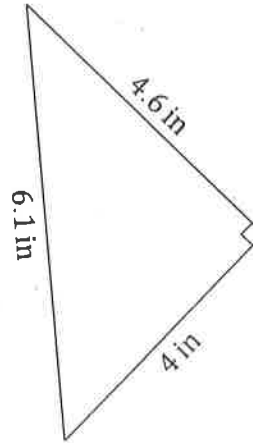


$$a^2 + 6^2 = 8.49^2$$

$$a = \sqrt{72.0801 - 36}$$

$$a = 6 \text{ mm}$$

2.

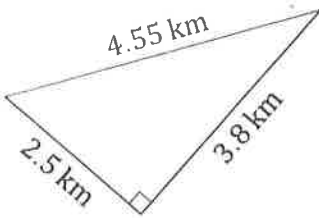


$$4.6^2 + b^2 = 6.1^2$$

$$b = \sqrt{37.21 - 21.16}$$

$$b = 4 \text{ in}$$

3.

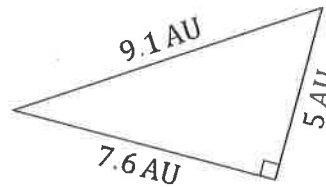


$$3.8^2 + 2.5^2 = c^2$$

$$c = \sqrt{14.44 + 6.25}$$

$$c = 4.55 \text{ km}$$

4.

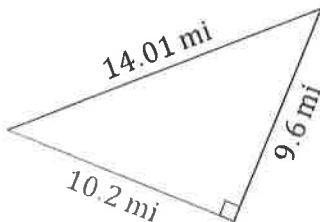


$$a^2 + 7.6^2 = 9.1^2$$

$$a = \sqrt{82.81 - 57.76}$$

$$a = 5 \text{ AU}$$

5.

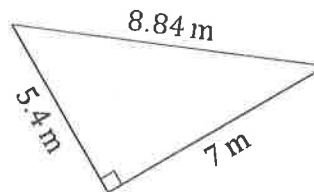


$$9.6^2 + b^2 = 14.01^2$$

$$b = \sqrt{196.2801 - 92.16}$$

$$b = 10.2 \text{ mi}$$

6.



$$7^2 + 5.4^2 = c^2$$

$$c = \sqrt{49 + 29.16}$$

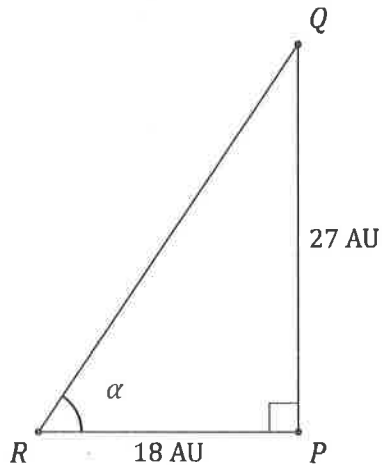
$$c = 8.84 \text{ m}$$

Trigonometric Ratios (A) Answers

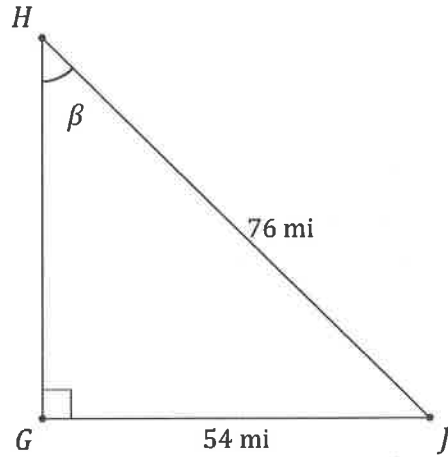
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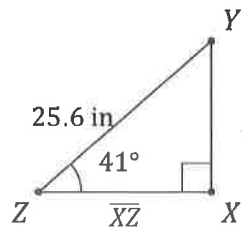
Calculate the angle and side values using trigonometric ratios



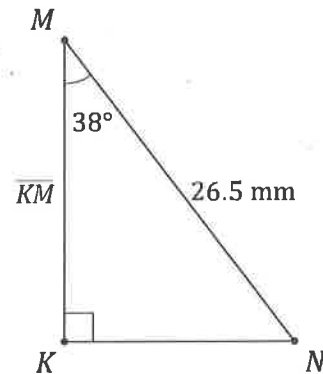
$$\alpha = \angle PRQ = \underline{56.3^\circ}$$



$$\beta = \angle GHJ = \underline{45.3^\circ}$$



$$\overline{XZ} = \underline{19.3 \text{ in}}$$



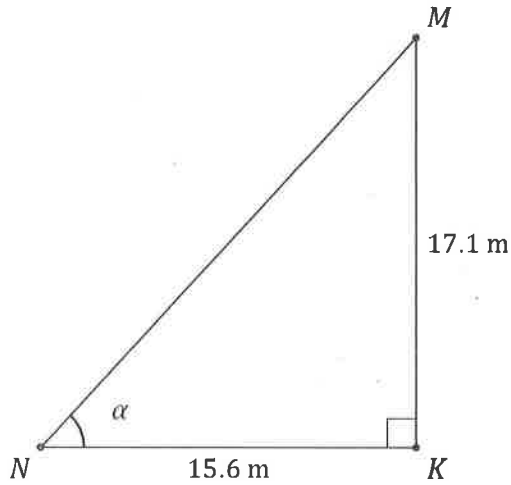
$$\overline{KM} = \underline{20.9 \text{ mm}}$$

Trigonometric Ratios (A) Answers

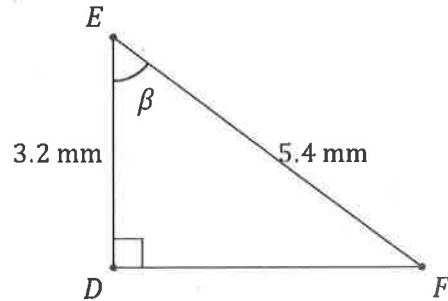
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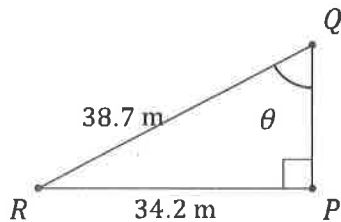
Calculate the angle values using trigonometric ratios



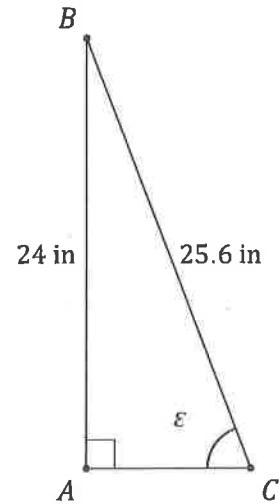
$$\alpha = \angle KNM = \underline{47.6^\circ}$$



$$\beta = \angle DEF = \underline{53.7^\circ}$$



$$\theta = \angle PQR = \underline{62.1^\circ}$$



$$\epsilon = \angle ACB = \underline{69.6^\circ}$$