

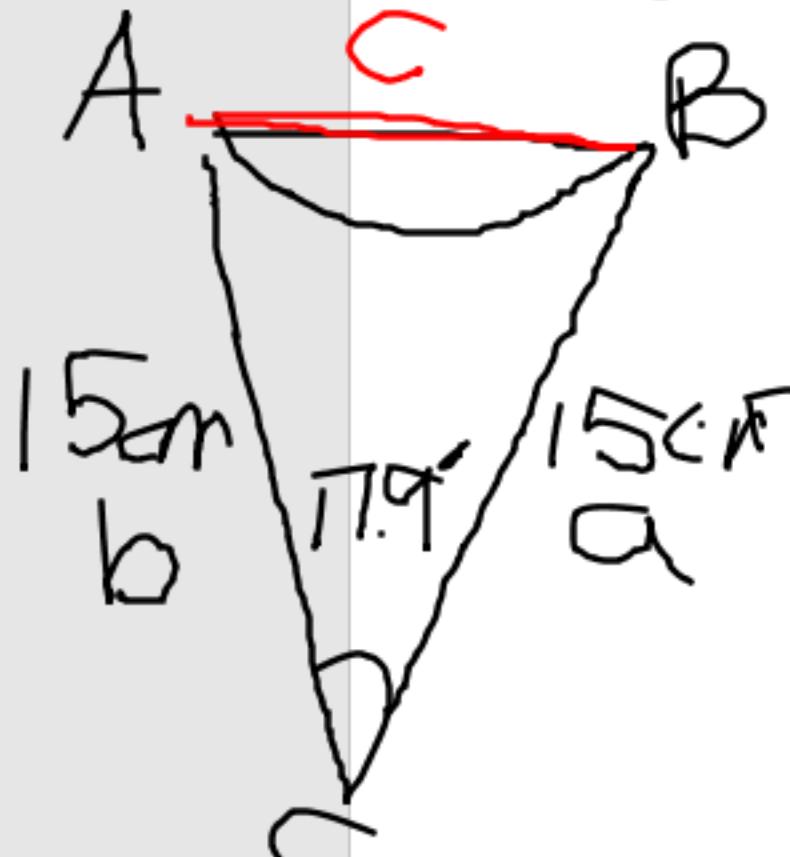
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4. A funnel used to pour oil into an engine is in the shape of a cone. The sides of the cone are 15 cm long and the angle between the sides is 17.9° . What is the diameter of the cone?



$$c^2 = a^2 + b^2 - 2ab \cos C$$

The screenshot shows the Microsoft Word ribbon with the 'Home' tab selected. The ribbon includes tabs for File, Home, Insert, Design, Layout, References, Mailings, Review, View, ACROBAT, and Tell me what you want to do... There are also Sign in and Share options. Below the ribbon are the 'Clipboard' and 'Font' toolbars.

1. Choose the best formula to solve each triangle....BLM 4.14.1...

(page 3)

5. Jesse is in a hot air balloon 6500 m above a lake. She measures the angle of depression to the far side of a lake to be 32° and the angle of depression to the near side of the lake to be 45° . Determine the distance across the lake.

1) a)



$$\angle R = 180 - 90 - 65$$

$$\angle R = 25^\circ$$

$$\begin{aligned}\angle P &= 90^\circ \\ \angle Q &= 65^\circ \\ \angle R &= 25^\circ\end{aligned}$$

$$p = 15.4 \text{ ft}$$

$$q = 14 \text{ ft}$$

$$r = 6.4 \text{ ft}$$

$$\sin Q = \frac{q}{h}$$

$$\sin 65 \times \frac{14}{p}$$

$$14 = (\sin 65)(p)$$

$$\frac{14}{\sin 65} = \frac{p}{\sin 65}$$

$$15.4 = p$$

$$a^2 + b^2 = c^2 \rightarrow \text{hypotenuse}$$

~~$$4^2 + r^2 = 15.4^2$$~~

~~$$19.6 + r^2 = 237.16 - 196$$~~

$$\sqrt{r^2} = \sqrt{41.16}$$

$$r = 6.4$$