

# Trig Questions

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## Equations

$$\sin \theta = \frac{O}{H}$$

$$\cos \theta = \frac{A}{H}$$

$$\tan \theta = \frac{O}{A}$$

## Questions

### Question 1

$$= \cos 37 * 7.3 = 5.83$$

### Question 4

$$= \arctan \frac{3.2}{3.7} = 40.9^\circ$$

### Question 2

$$= \frac{3.1}{\tan 26} = 6.36$$

### Question 5

$$= \arcsin \frac{5.3}{8.6} = 38.0^\circ$$

### Question 3

$$= \sin 25 * 5.2 = 2.20$$

### Question 6

$$= \arccos \frac{4.6}{5.9} = 38.8^\circ$$

### Question 7

*a*

$$= \tan 50 * 5 = 5.96cm$$

*b*

$$= \sin 20 * 5 = 1.71cm$$

### Question 8

$$Y_O = \sin 30 * 8 = 4$$

$$Z_O = \cos 25 * 10 = 9.06$$

$$WX = 4 + 9.06$$

$$= 13.1cm$$