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# ASSIGNMENT

“TRIGONOMETRY”

## HEIGHT

&

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ADDING CREATIVITY TO LEARNING

## DISTANCE

NAME: \_\_\_\_\_

Email ID \_\_\_\_\_

LOCATION \_\_\_\_\_

SCHOOL     COLLEGE     COMPETITIVE EXAM \_\_\_\_\_

Q1) A ladder is placed along a wall such that its upper end is touching the top of the wall. The foot of the ladder is 10 ft away from the wall and the ladder is making an angle of  $60^\circ$  with the ground. When a man starts climbing on it, it slips and now ladder makes an angle of  $30^\circ$  with ground. How much did the ladder slip on the wall?

Q2) When the sun's altitude changes from  $30^\circ$  to  $60^\circ$ , the length of the shadow of a tower decreases by 70m. What is the height of the tower?

Q3) An aeroplane when 900 m high passes vertically above another aeroplane at an instant when their angles of elevation at same observing point are  $60^\circ$  and  $45^\circ$  respectively. Approximately, how many meters higher is the one than the other?

Q4) A car is moving at uniform speed towards a tower. It takes 15 minutes for the angle of depression from the top of tower to the car to change from  $30^\circ$  to  $60^\circ$ . What time after this, the car will reach the base of the tower?

Q5) Two ships leave a port at the same instant. One sails at 30km/hr in the direction N  $32^\circ$  E while the other sails at 20 km/hr in the direction S  $58^\circ$  E. Find the distance between the ships, after 2 hour of the journey?

[Click here](#) for solutions to the Questions.

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We Use ANIMATION & VISUAL tools for Better Understanding of the concept.

**All about TRIGONOMETRY using ANIMATION & Visual Tool.**

Learn from Basics to advance of Trigonometry, using ANIMATION & Visual tools with 10 modules & 5 Question series.

7 Hours online content | 10 Modules | All Levels

**Basics of TRIGONOMETRY using Animation & Visual Tools.**

This course EXPLAINS the basics of TRIGONOMETRY with help of Animation and other Visual Tools. It includes Introduction to Trigonometry, All about Trigonometric Ratios, Trigonometric Table, Trigonometric Functions, Height & Distance concept, Question Series, Assignment & Formula List (Pdf).

HD Content | All Levels

Notes: