

Grade 10 Essential Unit E - Trigonometry

1. In \triangle ABC identify each side of the right-angled triangle relative to angle $\boldsymbol{\theta}$. As Opposite, Adjacent, or Hypotenuse



4. Find the value of x in each of the following triangles (Round all answers to 2 decimal places) SHOW ALL YOUR STEPS.



Gr10Ess_E_trigassgt_all.doc

5. Karl is flying a kite. The string is 60 meters long. The kite is 30 meters above the ground. What angle of angle of elevation does the kite string make with the ground?

/4

6. You know the distance to a tall building is 3600 feet. You measure the angle of elevation as being 5.5°. How tall is the building above you?

/4

7. You are looking down from a cliff at a boat in the distance. The angle of depression is 2.5° to the boat. You know the cliff is 124 feet high. How far away is the boat in feet? In miles?

/4