

Applications Using Trigonometry

Many problems in daily life can be solved by using trigonometry. Often such problems involve an angle of elevation or an angle of depression.



Example: The angle of elevation from point A to the top of a cliff is 30° . If point A is 40 feet from the base of the cliff, how high is the cliff?

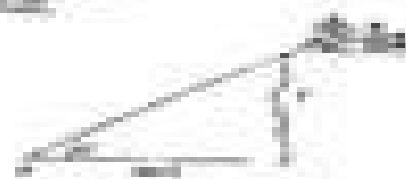
Let x represent the height of the cliff.
Then $\tan 30^\circ = \frac{x}{40}$.

$$30 \tan 30^\circ = x$$

This is multiplication, not the sine degree mode to find x .

$$\text{ENTER: } 30 \tan 30 = 17.32 \text{ on a calculator}$$

The cliff is about 17 feet high.



Solve each problem. Round answers to the nearest hundredth and measure all angles to the nearest degree.

- From the top of a tower, the angle of depression to a statue on the ground is 72° . The top of the tower is 40 feet above ground. How far is the statue from the base of the tower?
- A tree 40 feet high casts a shadow 60 feet long. Find the measure of the angle of elevation of the tree.
- A ladder leaning against a house reaches an angle of 60° with the ground. The foot of the ladder is 7 feet from the base of the house. How long is the ladder?
- A building on a 50-foot rising incline is at an angle of 30° with the ground. How high above the ground is the bottom of the house at the corner building the building is built along the ground?

Reteaching Worksheet Trigonometry

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Merrill Algebra 2 with Trigonometry, 1992 **Geometry** Nichols, 1991 A high school textbook presenting the fundamentals of geometry *El-Hi Textbooks & Serials in Print*, 2000, 2000 *Economics* J. Holton Wilson, 1997

Curriculum Review, 1985 **El-Hi Textbooks & Serials in Print, 2003**, 2003 *Trigonometry Workbook* Mel Friedman, 2009 NEW from REA Groundbreaking Easy to Use Workbook Series for Students Struggling with Math REA's Ready Set Go Series is a Perfect Study Tool for Exit Exams End of Course Exams or Graduation Exams Many students continue to struggle in high school math courses because they failed to master the basic mathematical skills REA's new Ready Set Go Workbook series takes the confusion out of math helping students raise their grades and score higher on important exams What makes REA's workbooks different For starters students will actually like using them Here's why Math is explained in simple language in an easy to follow style The workbooks allow students to learn at their own pace and master the subject 15 lessons break down the material into the basics Each lesson is fully devoted to a key math concept and includes many step by step examples Paced instruction with drills and quizzes reinforces learning The innovative Math Flash feature offers helpful tips and strategies in each lesson including advice on common mistakes to avoid Skill scorecard measures the student's progress and success Every answer to every question in every test is explained in full detail A final exam is included so students can test what they've learned When students apply the skills they've mastered in our workbooks they can do better in class raise their grades and score higher on the all important end of course graduation and exit exams Some of the math topics covered in the Ready Set Go Trigonometry Workbook include Trigonometric Ratios Graphing Points and Angles Special Angles Inverse Trigonometric Values Solving Triangles Solving Four Sided Figures Solving Trigonometric Equations and more Whether used in a classroom for home or self study or with a tutor this workbook gets students ready for important math tests and exams set to take on new challenges and helps them go forward in their studies **Worksheets That Teach** Quantum Scientific Publishing, 2018-10-08 Worksheets That Teach are completely different than normal

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