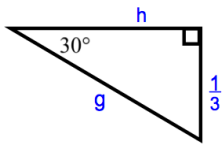


### Problem-Solving Homework

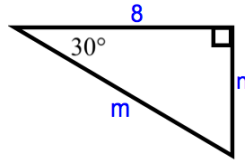
36. Snow White is being held prisoner in a tower with a window 40 feet from the ground. Prince Charming shows up with a 45-foot ladder. If the maximum angle that the ladder can make with the ground is  $72^\circ$ , will the prince be able to rescue Snow White? Explain your answer.
37. A ski lift takes skiers 500 meters up from the base of a ski trail to the top. If the elevation at the top is 2200 meters and the elevation at the bottom is 1800 meters, what is the angle of elevation of the ski lift?
38. Two points in front of a building are 25 feet apart. The angles of elevation from the points to the top of the building are  $18^\circ$  and  $25^\circ$ . How tall is the building?

### Special Right Triangles Homework

42.  $g =$   
 $h =$



43.  $m =$   
 $n =$



44.  $p =$   
 $q =$

