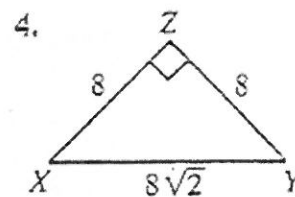
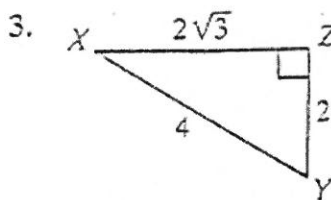
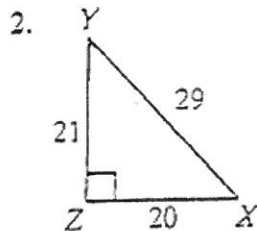
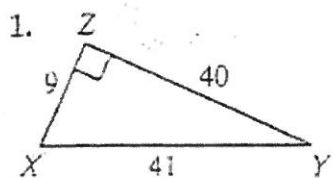


9.5 Practice Problems

Express  $\tan X$  and  $\tan Y$  as ratios.



Use a calculator or trigonometric table to evaluate the following. All angles are in degrees.

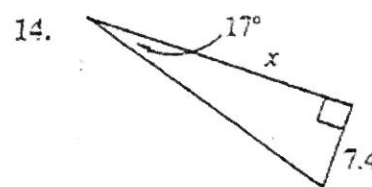
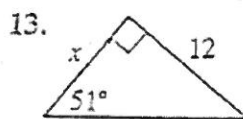
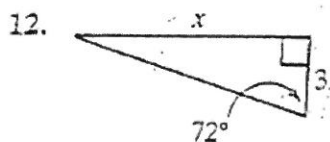
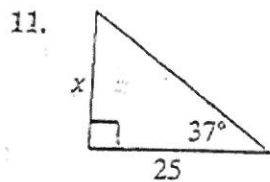
5.  $\tan 15$

6.  $\tan 1$

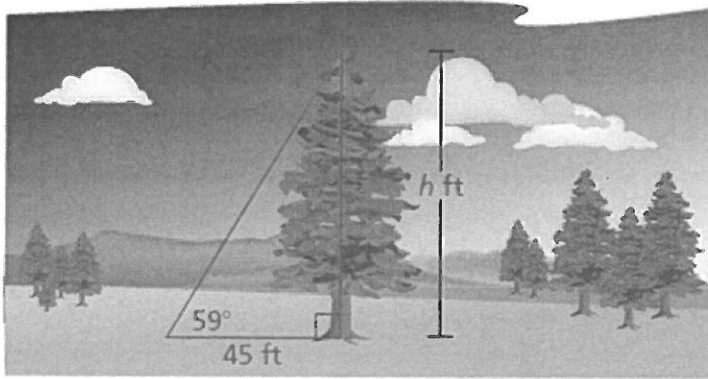
7.  $\tan 89$

8.  $\tan 62$

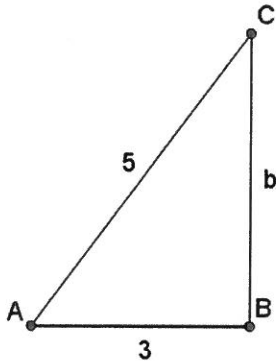
Find the value of  $x$  to the nearest tenth.



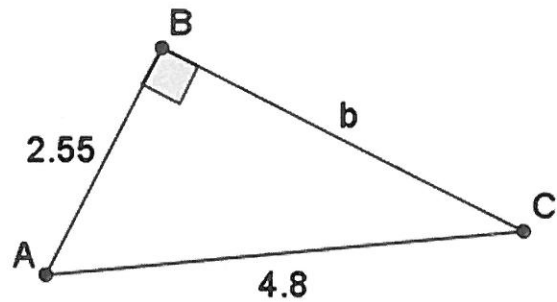
15. You are measuring the height of a spruce tree. You stand 45 feet from the base of the tree. You measure the angle of elevation from the ground to the top of the tree to be  $59^\circ$ . Find the height  $h$  of the tree to the nearest foot.



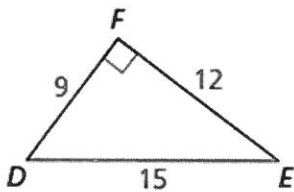
16. Find  $\tan C$  as a decimal given  $B$  is a right angle.



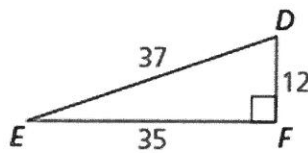
17. Find  $\tan A$  as a decimal given  $B$  is a right angle.



18. Find the measure of angle  $D$ .



19. Find the measure of angle  $E$ .



20. Find the measure of angle

