25. The legs of a right triangle are a length of 9 and 12. How long is the hypotenuse?

26. A right triangle has a hypotenuse length of 26 and a leg length of 24. How long is the other leg?

27. $\sin\theta = \dfrac{5}{12} \rightarrow \cos(90 - \theta) = $ _____

28. $\cos\theta = \dfrac{3}{7} \rightarrow \sin(90 - \theta) = $ _____

29. $\tan\theta = \dfrac{7}{24} \rightarrow \tan(90 - \theta) = $ _____ .

30. $\tan\theta = \dfrac{4}{3} \rightarrow \sin(90 - \theta) = $ _____

31. $\sin 12 = \cos$ _____ .

32. $\cos 53 = \sin$ _____

33. A tree casts a shadow that is 42 feet long. The angle of elevation to the top of the tree is 38°. How tall is the tree?

34. A radio tower is 78 feet tall. Find the angle of elevation to the top of the tower at a point on level ground 60 feet from its base.

35. A 16-foot ladder rests against a wall so that the base of the ladder is 6.5 feet from the base of the building. What angle does the ladder make with the wall?

36. A girl flying a kite lets out 100 feet of string that makes an angle of elevation of 72° with his line of sight. Find how high the kite is above the ground.

37. On a baseball field, it is 90 feet from home plate to 1st base and 90 feet from 1st base and 2nd base. How far is it from home plate to 2nd base?