

Geometry Review 3.2

Algebra 2

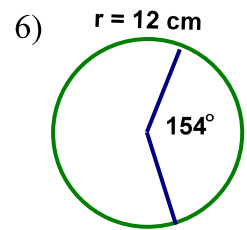
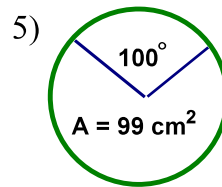
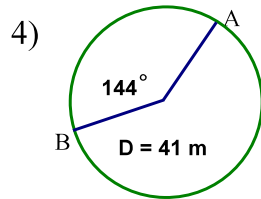
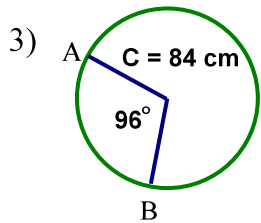
Find the missing measures in each circle. Give circumference and area in terms of pi and to the nearest tenth.

1) $r =$ $d =$ $C = 56\pi m$ $A =$
 $=$ $=$

2) $r =$ $d =$ $C =$ $A = 92 \text{ cm}^2$
 $=$ $=$

Find the length of minor arc AB using a proportion.

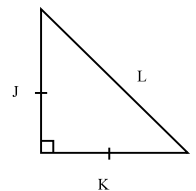
Find the area of the sector using a proportion.



Given the length of one side of the 45-45-90 triangle at the right find the other two sides to the nearest tenth..

7) $J = 18$ 8) $K = 16\sqrt{2}$

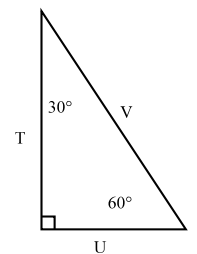
9) $L = 32\sqrt{2}$ 10) $L = 58$



Given the length of one side of the 30-60-90 triangle at the right find the other sides to the nearest tenth.

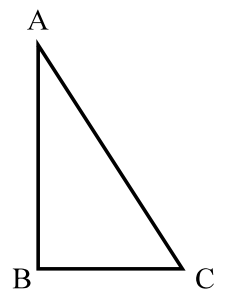
11) $U = 12$ 12) $U = 15\sqrt{3}$ 13) $V = 64$

14) $T = 43\sqrt{3}$ 15) $T = 71$ 16) $V = 36\sqrt{3}$



In the figure at the right the ratio $\frac{\text{Opposite } \angle A}{\text{Adjacent } \angle A} = \frac{16}{63}$.

17) $BC = 48$, find AB and AC . 18) $AC = 325$, find BC and AB .

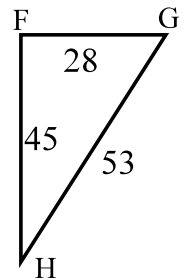
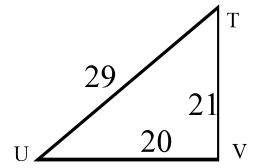


Use $\triangle QRS$ to find each trig. ratio. Use a calculator to approximate each ratio to four decimal places.

19) $\sin \angle U$ 20) $\tan \angle T$ 21) $\cos \angle F$

22) $\cos \angle T$ 23) $\cos \angle G$ 24) $\tan \angle H$

25) $\sin \angle H$ 26) $\tan \angle U$ 27) $\cos \angle U$ 28) $\sin \angle G$



Given a trig ratio for the triangle to the right, give the missing trig ratios.

$\sin \angle V = 39/89$

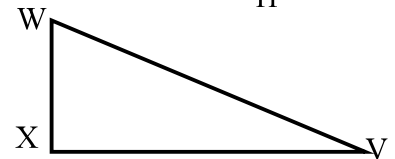
$\tan \angle W = 77/36$

29) Find $\cos \angle W$

31) Find $\sin \angle V$

30) Find $\tan \angle V$

32) Find $\tan \angle W$



33) Find $\sin \angle X$

Find the angle measure in degrees for the given number of rotations.

34) $2/3$

35) $1/4$

36) $5/6$

37) $3/8$

38) $7/4$

39) $10/3$

Convert the given measure in degrees to radian measure.

40) 270°

41) 120°

42) 45°

43) 135°

44) 315°

45) 510°

Convert the given measure in radians to degrees.

46) 3π rad

47) 8π rad

48) $\frac{3\pi}{4}$ rad

49) $\frac{11\pi}{6}$ rad

50) $\frac{5\pi}{3}$ rad

51) $\frac{14\pi}{3}$ rad

Draw the following angles in standard position.

52) 60°

53) 255°

54) 345°

55) -135°