

Q3HW2

Date _____ Period _____

Find the circumference of each circle. Round your answer to the nearest tenth.

1) radius = 7 cm

2) radius = 8 cm

3) radius = 6.4 mi

4) radius = 10.6 yd

5) diameter = 14.2 in

6) diameter = 5.6 ft

7) diameter = 13.8 ft

8) diameter = 22.2 in

Find the circumference of each circle. Exact answer.

9) radius = 5 km

10) radius = 2 cm

11) diameter = 22 km

12) diameter = 16 mi

VERIFY THE FOLLOWING trig. identities:

$$\textcircled{13} \cos \theta + \tan \theta \csc \theta = 1$$

$$\textcircled{14} \csc \theta = \cot \theta \sec \theta$$

$$\textcircled{15} \frac{\cos x - \sin x}{\cos x} = 1 - \tan x$$

$$\textcircled{16} \frac{1 - \tan^2 y}{\tan y} = \cot y - \tan y$$

Bonus: $\cot \theta + \tan \theta = \sec \theta \csc \theta$

Tip $\Rightarrow$ think about common denominators.