Math 3

Name_____ ID: 1
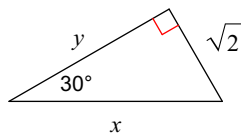
Take Home Quiz on 8.1-3
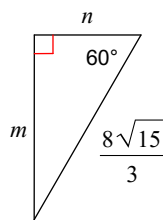
Date_____ Period____

Find the missing side lengths. Leave your answers as radicals in simplest form.

1)

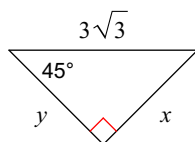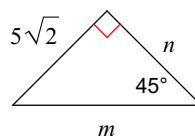
2)

3)

4)

Convert each degree measure into radians and each radian measure into degrees.

5) 300°

6) 120°

7) $\dfrac{\pi}{4}$

8) $\dfrac{7\pi}{18}$

Find a positive and a negative coterminal angle for each given angle.

9) −270°

10) 380°

11) $\dfrac{\pi}{4}$

12) $\dfrac{5\pi}{2}$

Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

13) $\csc \theta; \left(-\sqrt{7}, 3\right)$

14) $\sec \theta; \left(9, -18\right)$

15) $\sin \theta; \left(-6, 8\right)$

16) $\cos \theta; \left(-2, -2\sqrt{3}\right)$

17) $\cot \theta; \left(-5, 8\right)$

18) $\tan \theta; \left(9, -10\right)$

Find the reference angle.

19) $-600°$

20) $\dfrac{2\pi}{3}$

21) $-275°$

22) $-\dfrac{3\pi}{4}$

Without a calculator find the exact value of each trigonometric function.

23) $\sec 210°$

24) $\sin 315°$

25) $\cot \dfrac{\pi}{3}$

26) $\cos \dfrac{7\pi}{4}$