ACTIVITY 32 PRACTICE

Write your answers on notebook paper.
Show your work.

Lesson 32-1

1. Draw an angle in standard position for each of the following measures.
   a. $200°$
   b. $575°$
   c. $-225°$
   d. $-660°$
   e. $\dfrac{2\pi}{5}$
   f. $-\dfrac{3\pi}{2}$
   g. $-\dfrac{9\pi}{4}$
   h. $\dfrac{11\pi}{3}$

2. Which angle is a coterminal angle with $140°$?
   A. $-140°$
   B. $40°$
   C. $400°$
   D. $500°$

3. Which angle is a coterminal angle with $-75°$?
   A. $435°$
   B. $-285°$
   C. $285°$
   D. -645

4. Which angle is *not* a coterminal angle with $\dfrac{5\pi}{4}$ radians?
   A. $-\dfrac{3\pi}{4}$
   B. $-\dfrac{7\pi}{4}$
   C. $-\dfrac{11\pi}{4}$
   D. $\dfrac{13\pi}{4}$

5. Give one positive and one negative angle that are coterminal with each of the following angles.
   a. $-65°$
   b. $500°$
   c. $-\dfrac{6\pi}{5}$
   d. $\dfrac{8\pi}{3}$

6. What is the reference angle for $\theta = 75°$?
   A. $15°$
   B. $75°$
   C. $105°$
   D. $255°$

7. What is the reference angle for $\theta = \dfrac{8\pi}{5}$?
   A. $\dfrac{\pi}{5}$
   B. $\dfrac{2\pi}{5}$
   C. $\dfrac{3\pi}{5}$
   D. $\dfrac{8\pi}{5}$

8. What is the reference angle for each value of θ?
   a. $\theta = -325°$
   b. $\theta = 530°$
   c. $\theta = -\dfrac{12\pi}{5}$
   d. $\theta = \dfrac{7\pi}{4}$

9. In which quadrant is the reference angle α equal to θ?

10. Find $\sin\theta$ and $\cos\theta$.
    a. $\theta = -180°$
    b. $\theta = 450°$?

11. Find $\sin\theta$ and $\cos\theta$.
    a. $\theta = 6\pi$
    b. $\theta = -\dfrac{7\pi}{2}$

12. What are the sine and cosine for each value of θ?
    a. $\theta = 315°$
    b. $\theta = -510°$
    c. $\theta = -\dfrac{11\pi}{6}$
    d. $\theta = \dfrac{10\pi}{3}$