

## Trig 9-1 Degree Measures and Radians

Name: \_\_\_\_\_

Time> Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

**Change each degree measure to radian measure in terms of  $\pi$ .**

\_\_\_\_\_ 1.  $30^\circ$

\_\_\_\_\_ 2.  $50^\circ$

\_\_\_\_\_ 3.  $150^\circ$

\_\_\_\_\_ 4.  $130^\circ$

\_\_\_\_\_ 5.  $80^\circ$

\_\_\_\_\_ 6.  $250^\circ$

\_\_\_\_\_ 7.  $300^\circ$

\_\_\_\_\_ 8.  $350^\circ$

\_\_\_\_\_ 9.  $220^\circ$

**Change each radian measure to degree measure.**

\_\_\_\_\_ 10.  $\frac{\pi}{2}$

\_\_\_\_\_ 11.  $\frac{\pi}{4}$

\_\_\_\_\_ 12.  $\frac{3\pi}{2}$

\_\_\_\_\_ 13.  $\frac{3\pi}{5}$

\_\_\_\_\_ 14.  $\frac{5\pi}{6}$

\_\_\_\_\_ 15.  $\frac{7\pi}{2}$

\_\_\_\_\_ 16.  $\frac{3\pi}{4}$

\_\_\_\_\_ 17.  $\pi$

\_\_\_\_\_ 18.  $4\pi$

\_\_\_\_\_ 19. 3

\_\_\_\_\_ 20. 1.8

\_\_\_\_\_ 21. 4.7

## SAT Questions

\_\_\_\_\_ 22.

Consider  $a, 2a, 4a, 8a$

If  $a < 0$ , which of the four numbers above is the greatest?

A.  $a$

B.  $2a$

C.  $4a$

D.  $8a$

E. It cannot be determined from the information given.

\_\_\_\_\_ 23.

If  $m = n(n - 3)$ , what is the value of  $-3m$  in terms of  $n$ ?

A.  $3n + 3n^2$

B.  $9n + 3n^2$

C.  $3n + 9n^2$

D.  $3n - 3n^2$

E.  $9n - 3n^2$

\_\_\_\_\_ 24.

There are  $g$  gallons of paint available to paint a house. After  $n$  gallons have been used, then, in terms of  $g$  and  $n$ , what percent of the paint has not been used?

A.  $\frac{100n}{g}\%$

B.  $\frac{g}{100n}\%$

C.  $\frac{100g}{n}\%$

D.  $\frac{g}{100(g-n)}\%$

E.  $\frac{100(g-n)}{g}\%$