Name: _____ Score: _____

Readiness Test

Simplify. Your answer should contain only positive exponents.

1) $3n \cdot n$

2) $x \cdot 2x \cdot 2x^3$

3) $(y^0)^3 \cdot x^4$

4) $(-xy^{-2})^5 \cdot y^4$

5) $v^2 \cdot (-uv^{-2})^4$

Simplify.

6) $(\sqrt[4]{m})^7$

7) $\sqrt{6r}$

8) $\dfrac{1}{(\sqrt[3]{6n})^4}$

9) $(p^2)^{\frac{3}{2}}$

10) $(x^6)^{\frac{3}{2}}$

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

11) $100°$

12) $225°$

13) $-240°$

14) $120°$

15) $\dfrac{83\pi}{18}$

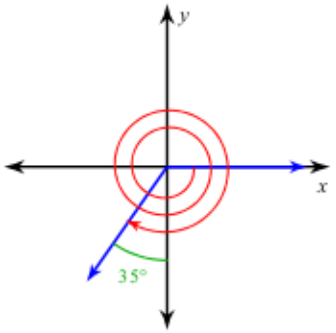
State the quadrant in which the terminal side of each angle lies.

16) $-127°$

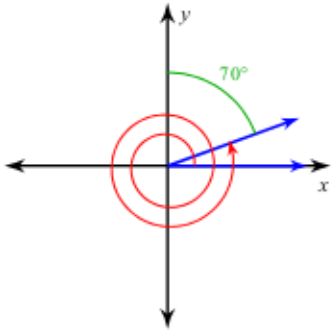
17) $30°$

Find the measure of each angle.

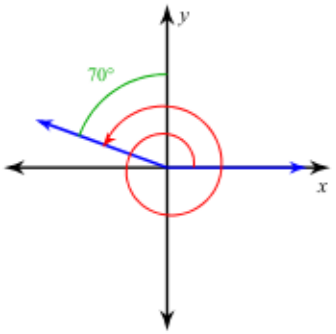
18)



19)



20)



Find the reference angle.

21) $-\frac{13\pi}{4}$

22) $-\frac{16\pi}{9}$

23) $\frac{7\pi}{3}$

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

24) 330°

25) 645°