

Name: _____

Score: _____

Readiness Test

Simplify. Your answer should contain only positive exponents.

1) $3n \cdot n$

$3n^2$

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

x^4

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

$\frac{u^4}{v^6}$

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

$4x^5$

4) $\left(-xy^{-2}\right)^5 \cdot y^4 - \frac{x^5}{y^6}$

Simplify.

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

$m^{\frac{7}{4}}$

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

$(6n)^{-\frac{4}{3}}$

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

x^9

7) $\sqrt{6r}$

$(6r)^{\frac{1}{2}}$

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

p^3

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

11) $100^\circ \frac{5\pi}{9}$

12) $225^\circ \frac{5\pi}{4}$

13) $-240^\circ -\frac{4\pi}{3}$

14) $120^\circ \frac{2\pi}{3}$

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

830°

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

16) -127°

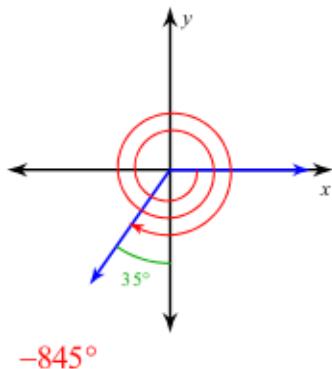
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17) 30°

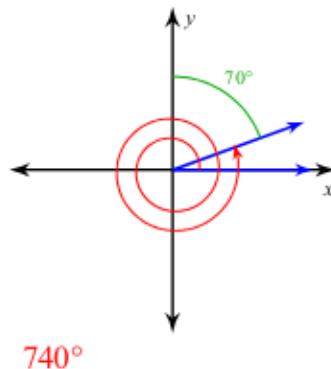
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Find the measure of each angle.

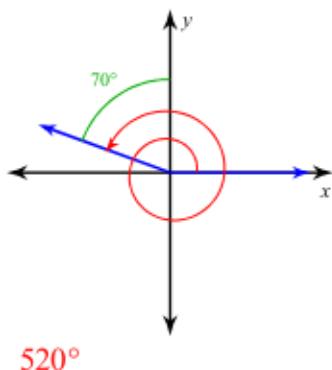
18)



19)



20)



Find the reference angle.

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

22) $-\frac{16\pi}{9}$ $\frac{2\pi}{9}$

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

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

24) 330°

690° and -30°

25) 645°

285° and -75°