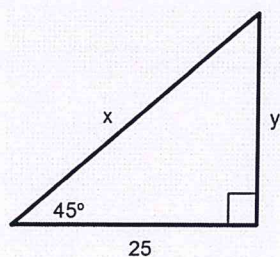
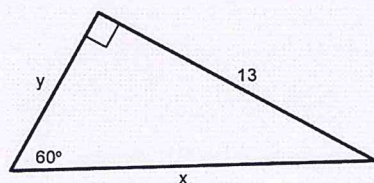


1. Find the EXACT value of x and y in each triangle.

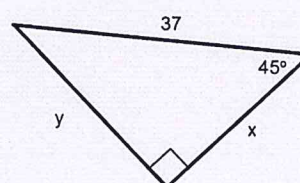
a) $x =$ $y =$



b) $x =$ $y =$



c) $x =$ $y =$

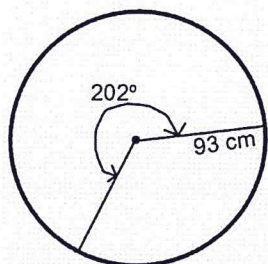


2. Is each pair of angles coterminal?

a) 372° and 1272°

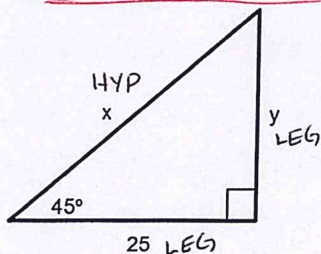
b) $-\frac{17\pi}{12}$ and $\frac{67\pi}{12}$

3. Find the arc length for the indicated angle to the nearest hundredth.



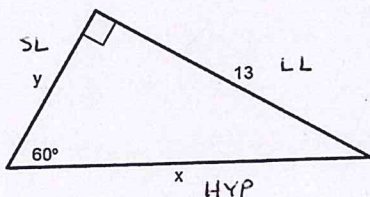
1. Find the EXACT value of x and y in each triangle.

a) $x = 25\sqrt{2}$ $y = 25$



$$\text{HYP} = \text{LEG} \cdot \sqrt{2}$$

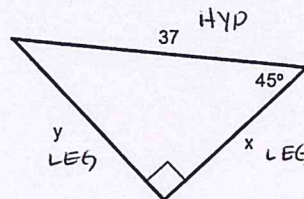
b) $x = \frac{26\sqrt{3}}{3}$ $y = \frac{13\sqrt{3}}{3}$



$$\text{SL} = \frac{\text{LL}}{\sqrt{3}} = \frac{13}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{13\sqrt{3}}{3}$$

$$\text{HYP} = \text{SL} \cdot 2 = \frac{13\sqrt{3}}{3} \cdot 2 = \frac{26\sqrt{3}}{3}$$

c) $x = \frac{37\sqrt{2}}{2}$ $y = \frac{37\sqrt{2}}{2}$



$$\text{HYP} = \frac{\text{LEG}}{\sqrt{2}} = \frac{37}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{37\sqrt{2}}{2}$$

2. Is each pair of angles coterminal?

a) 372° and 1272°

$$\frac{1272 - 372}{360} = 2.5$$

NOT
COTERMINAL

SEPARATION IS
NOT A
MULTIPLE
OF 360°

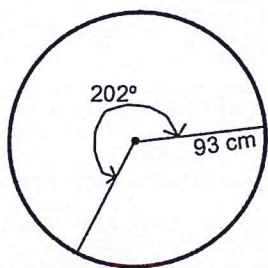
b) $\frac{-17\pi}{12}$ and $\frac{67\pi}{12}$

$$\frac{67\pi}{12} - \frac{-17\pi}{12} = 7\pi$$

NOT
COTERMINAL

SEPARATION
IS NOT
A
MULTIPLE
OF 2π

3. Find the arc length for the indicated angle to the nearest hundredth.



$$S = \theta \cdot r$$

$$S = \left(202^\circ \cdot \frac{\pi}{180^\circ}\right) (93 \text{ cm})$$

$$S = 327.88 \text{ cm}$$