## Angles!(mostly)

For 1-6, find the measure of each reference angle.

$$5) \frac{5\pi}{4}$$

5) 
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 6)  $-\frac{\pi}{3}$ 

For 7-10, identify all angles that are coterminal with each angle. Then, find one positive and one negative angle that are coterminal with each angle.

9) 
$$\frac{5\pi}{6}$$

10) - 
$$\frac{4\pi}{3}$$

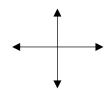
For 11-14, convert from radians to degrees or degrees to radians respectfully. When applicable leave in terms of  $\pi$ .

11) 
$$\frac{7\pi}{10}$$

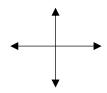
12) 
$$\frac{\pi}{8}$$

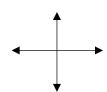
For 15-18, draw each angle. Then, if each angle is in standard position, determine a coterminal angle that is between 0° and 360°. Finally, state the quadrant in which the terminal sides lies.











For 19 & 20, given the measurement of a central angle, find the length of its intercepted arc in a circle of radius 14 cm. Round to the nearest tenth.

$$20) \ \frac{3\pi}{11}$$

For 21 & 22, find the area of each sector given its central angle  $\theta$  and the radios of the circle. Found to the nearest tenth.

21) 
$$\theta = \frac{5\pi}{12}$$
,  $r = 10$ 

22) 
$$\theta = 225^{\circ}, r = 6$$