

C12 - 4.1 - Degree/Radian Conversion HW

Degrees to Radians:

Radians to Degrees:

$$\frac{180^\circ}{\pi} = \frac{\pi}{180^\circ}$$

$$\times \frac{\pi}{180^\circ}$$

$$\times \frac{180^\circ}{\pi}$$

π and 180° are the same thing, just in different units

Find θ in radians

40°

60°

100°

135°

10°

0°

29°

420°

330°

Find θ in degrees

$\frac{\pi}{6}_{rad}$

$\frac{\pi}{12}_{rad}$

$\frac{5\pi}{3}_{rad}$

$\frac{3\pi}{5}_{rad}$

$\frac{2\pi}{5}_{rad}$

$\frac{2\pi}{7}_{rad}$

3.14_{rad}

5.12_{rad}

7_{rad}

2

10

1

C12 - 4.1 - Fill in blanks degrees/radians WS

Simplify

15° , 30° , 45° , _____, _____, _____, _____, _____

$\frac{\pi}{12}$, $\frac{2\pi}{12}$, $\frac{3\pi}{12}$, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____

30° , 60° , 90° , _____, _____, _____, _____, _____

$\frac{2\pi}{12}$, $\frac{4\pi}{12}$, $\frac{6\pi}{12}$, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____

45° , 90° , 135° , _____, _____, _____, _____, _____

$\frac{3\pi}{12}$, $\frac{6\pi}{12}$, $\frac{9\pi}{12}$, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____

60° , 120° , 180° , _____, _____, _____, _____, _____

$\frac{4\pi}{12}$, $\frac{8\pi}{12}$, $\frac{12\pi}{12}$, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____

90° , 180° , 270° , _____, _____, _____, _____, _____

$\frac{\pi}{2}$, $\frac{2\pi}{2}$, $\frac{3\pi}{2}$, _____, _____, _____, _____, _____

_____, _____, _____, _____, _____, _____, _____, _____

180° , 360° , 540° , _____, _____, _____, _____, _____

π , 2π , 3π , _____, _____, _____, _____, _____

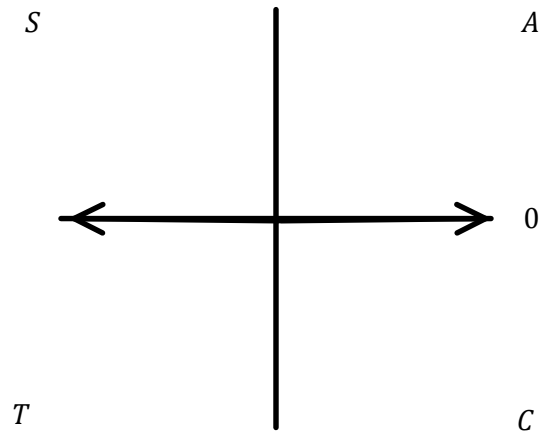
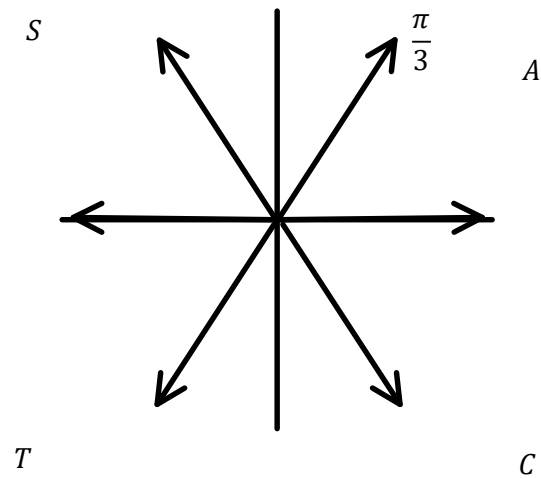
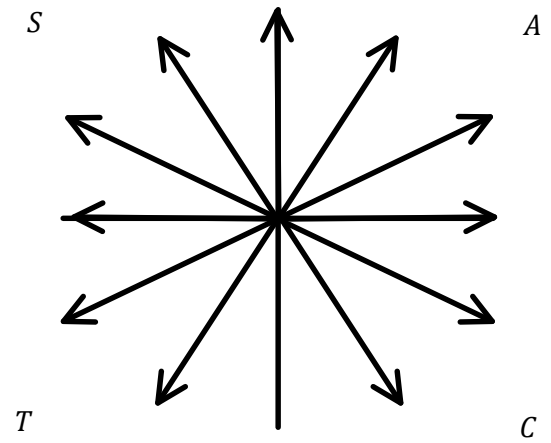
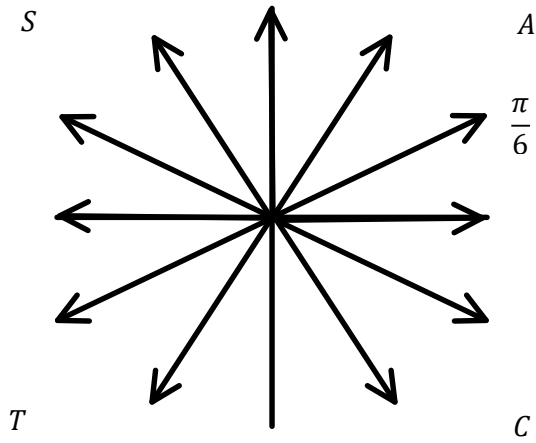
360° , 720° , 1080° , _____, _____, _____, _____, _____

2π , 4π , 6π , _____, _____, _____, _____, _____

C12 - 4.1 - $\frac{\# \pi}{\#}$ HMK

Label each terminal arm θ_{stp} .

Simplify



Simplify

