convert between degree and radian measure

$$740^{\circ}$$
  $\left(\frac{21}{360^{\circ}}\right)$   $-\frac{121}{3}\left(\frac{360^{\circ}}{21}\right)$ 

$$\frac{240 \cdot 2\pi}{360} = \frac{480\pi}{360} \qquad -\frac{360}{3} = -|20^{\circ}| = -\frac{2\pi}{3}$$

$$\frac{47}{3} = 260^{\circ}$$

$$\frac{3T}{4} \left( \frac{180^{\circ}}{11 \text{ kad}} \right) = 135^{\circ}$$
  $150^{\circ} \left( \frac{T}{180^{\circ}} \right) = \frac{5T}{6}$ 

$$-\frac{217}{3}\left(\frac{180^{\circ}}{17}\right) = -120^{\circ} \qquad -90^{\circ}\left(\frac{11}{180^{\circ}}\right) = -\frac{1}{2}$$

## Quiz

Question 1:

Question: What is the measure, in radians, of the angle?

$$220^{\circ} \left( \frac{\pi}{180} \right) => 220 \times \frac{\pi}{180/20}$$

**Answer choices:** 

$$A \qquad \frac{9}{11}\pi$$

$$\mathsf{B} \qquad \frac{5}{4}\pi$$

C 
$$\frac{11}{9}\pi$$

D 
$$\frac{5}{6}\pi$$

Question 2:

Question: What is the measure, in degrees, of the angle?

$$\frac{-\frac{13}{8}\pi}{\sqrt{\frac{180}{\pi}}} = \frac{13\times180^{\circ}}{8} = \frac{2340^{\circ}}{8}$$

$$= 292.5^{\circ}$$

**Answer choices**:

## Question 3:

Question: Which of the following is the best approximation of the angle?

163°

## **Answer choices:**

2.84 radians

В 3.45 radians

С 1.76 radians

D 2.66 radians  $163^{6}(\frac{\pi}{180}) = \frac{163 \times 3.14}{180}$   $\frac{511}{180} = 2.84$