

TH30

Section 4.1 / 14, 20, 22, 28, 62.

Section 4.2 / 2, 20, 22, 24, 26, 28, 30, 36.

#14

$18^\circ \rightarrow$ radians.

$$\text{radians} = \frac{\pi \cdot 18^\circ}{180^\circ} = \boxed{\frac{\pi}{10}}$$

$$\begin{aligned} \pi &= 180^\circ \\ x &= \text{degrees} \\ x &= \frac{\pi \cdot \text{degrees}}{180^\circ} \end{aligned}$$

#20

$$\text{radians} = \frac{\pi \cdot (-270^\circ)}{180^\circ} = -\frac{\pi \cdot 27}{18} = \boxed{-\frac{3\pi}{2}}$$

#22

$\frac{\pi}{9} \rightarrow$ degrees

$$\text{degrees} = \frac{\frac{\pi}{9} \cdot 180^\circ}{\pi} = \boxed{20^\circ}$$

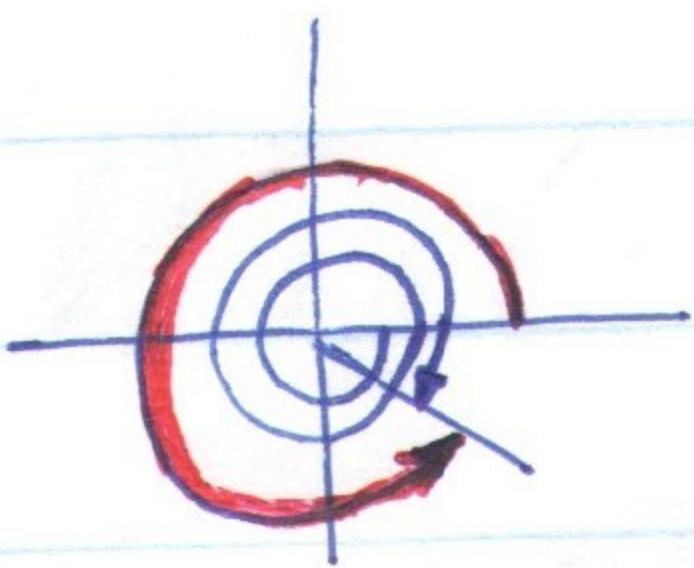
$$\begin{aligned} \pi &= 180^\circ \\ \text{radians} &= x \\ x &= \frac{\text{radians} \cdot 180^\circ}{\pi} \end{aligned}$$

#28

$$\text{degrees} = \frac{-4\pi \cdot 180^\circ}{\pi} = -4 \cdot 180^\circ = \boxed{-720^\circ}$$

#62

-760° find coterminal angle $\leq 360^\circ$



$$-760^\circ + 360^\circ + 360^\circ + 360^\circ = \boxed{320^\circ}$$

#64

$$\frac{17\pi}{5}$$

$$\frac{17\pi}{5} - 2\pi = \frac{17\pi}{5} - \frac{10\pi}{5} = \boxed{\frac{7\pi}{5}}$$

$$\frac{7\pi}{5} > 0$$

$$\frac{7\pi}{5} < 2\pi$$

#70

$$-\frac{38\pi}{9}$$

$$-\frac{38\pi}{9} + 2\pi = -\frac{20\pi}{9}$$

$$-\frac{20\pi}{9} + 2\pi = \frac{-20\pi + 18\pi}{9} = -\frac{2\pi}{9}$$

$$-\frac{2\pi}{9} + 2\pi = \frac{-2\pi + 18\pi}{9} = \frac{16\pi}{9}$$

$$\frac{16\pi}{9}$$

$$\frac{16\pi}{9}$$