

Converting Angles Solutions 400°

$$\textcircled{1} 400^\circ \cdot \frac{\pi}{180} = \frac{400}{180} \pi = \boxed{\frac{20}{9} \pi} \text{ exact} \\ \approx 6.98 \text{ radians} \\ \text{Q1}$$

$$\textcircled{2} 130^\circ \cdot \frac{\pi}{180} = \frac{130}{180} \pi = \boxed{\frac{13}{18} \pi} \text{ exact} \\ \approx 2.27 \text{ rad approx} \\ \text{Q2}$$

$$\textcircled{3} 65^\circ \cdot \frac{\pi}{180} = \frac{65}{180} \pi = \boxed{\frac{13}{36} \pi} \text{ exact} \\ \approx 1.13 \text{ rad approx} \\ \text{Q1}$$

$$\textcircled{4} 261^\circ \cdot \frac{\pi}{180} = \frac{261}{180} \pi = \boxed{\frac{29}{20} \pi} \text{ exact} \\ \approx 4.56 \text{ rad approx} \\ \text{Q3}$$

Converting Angles Solutions $\frac{29}{18}\pi$

$$\textcircled{1} \quad \frac{29\pi}{18} \cdot \frac{180}{\pi} = \frac{29 \cdot 180}{18} \frac{\pi}{\pi} = \boxed{290^\circ}$$

Q4

$$\textcircled{2} \quad \frac{8\pi}{5} \cdot \frac{180}{\pi} = \frac{8 \cdot 180}{5} \frac{\pi}{\pi} = \boxed{288^\circ}$$
$$= \frac{1440}{5}$$

Q4

$$\textcircled{3} \quad 5.7 \cdot \frac{180}{\pi} = \frac{5.7 \cdot 180}{\pi} = \frac{1026}{\pi} \approx \boxed{326.59^\circ}$$

Q4

$$\textcircled{4} \quad \frac{17}{\pi} \cdot \frac{180}{\pi} = \frac{17 \cdot 180}{\pi^2} = \frac{3060}{\pi^2} \approx \boxed{310.04^\circ}$$

Q4

Solutions Converting Angles 250°

$$\textcircled{1} \quad 250^\circ \cdot \frac{\pi}{180} = \frac{250}{180} \pi = \boxed{\frac{25\pi}{18}} \text{ exact}$$

$\approx 4.36 \text{ rad approx}$

Q3

$$\textcircled{2} \quad 306^\circ \cdot \frac{\pi}{180} = \frac{306}{180} \pi = \boxed{\frac{17\pi}{10}} \text{ exact}$$

$\approx 5.34 \text{ rad}$

Q4

$$\textcircled{3} \quad 170^\circ \cdot \frac{\pi}{180} = \frac{170}{180} \pi = \boxed{\frac{17}{18} \pi} \text{ exact}$$

$\approx 2.97 \text{ rad}$

Q2

$$\textcircled{4} \quad 72^\circ \cdot \frac{\pi}{180} = \frac{72}{180} \pi = \boxed{\frac{2\pi}{5}} \text{ exact}$$

$\approx 1.26 \text{ rad}$

Q1

Converting Angles Solutions $\frac{5\pi}{18}$

$$\textcircled{1} \frac{5\pi}{18} \cdot \frac{180}{\pi} = \frac{5 \cdot 180}{18} \cdot \frac{\pi}{\pi} = \boxed{50^\circ}$$

Q1

$$\textcircled{2} \frac{19\pi}{5} \cdot \frac{180}{\pi} = \frac{19 \cdot 180}{5} \cdot \frac{\pi}{\pi} = \boxed{684^\circ}$$

Q4

$$360 \overline{) 684} \begin{array}{r} 1 \text{ r } 324 \\ 360 \\ \hline 324 \end{array}$$

$$1 \frac{324}{360} \text{ rev}$$

$$\textcircled{3} 2.6 \cdot \frac{180}{\pi} = \frac{2.6 \cdot 180}{\pi} = \frac{468}{\pi} \approx \boxed{148.97^\circ}$$

Q2

$$\textcircled{4} \frac{12}{\pi} \cdot \frac{180}{\pi} = \frac{12 \cdot 180}{\pi^2} = \frac{2160}{\pi^2} \approx 218.85^\circ$$

Q3

Solutions: Converting Angles 20°

① 20° $20^\circ \cdot \frac{\pi}{180} = \frac{20}{180} \pi = \boxed{\frac{\pi}{9}}$ exact radian
 ≈ 0.35 rad approx.

Q1

② 432° $432^\circ \cdot \frac{\pi}{180} = \frac{432}{180} \pi = \boxed{\frac{12\pi}{5}}$ exact radian
 ≈ 7.54 rad approx.

Q1

③ 54° $54^\circ \cdot \frac{\pi}{180} = \frac{54}{180} \pi = \boxed{\frac{3\pi}{10}}$ exact radian
 ≈ 0.94 rad

Q1

④ 207° $207^\circ \cdot \frac{\pi}{180} = \frac{207}{180} \pi = \boxed{\frac{23\pi}{20}}$ exact radian
 ≈ 3.61 rad approx

Q3

Solutions: Converting Angles $\frac{11\pi}{18}$

$$\textcircled{1} \quad \frac{11\pi}{18} \cdot \frac{180}{\pi} = \frac{11}{18} \cdot \frac{180}{1} \cdot \frac{\pi}{\pi} = \boxed{110^\circ}$$

Q2

$$\textcircled{2} \quad \frac{7\pi}{5} \cdot \frac{180}{\pi} = \frac{7}{5} \cdot \frac{180}{1} \cdot \frac{\pi}{\pi} = \boxed{252^\circ}$$

Q3

$$\textcircled{3} \quad 4.3 \cdot \frac{180}{\pi} = \frac{4.3 \cdot 180}{\pi} = \frac{774}{\pi} \approx \boxed{246.37^\circ}$$

Q3

$$\textcircled{4} \quad \frac{15}{\pi} \cdot \frac{180}{\pi} = \frac{15 \cdot 180}{\pi^2} = \frac{2700}{\pi^2} \approx \boxed{273.57^\circ}$$

QIV

Solutions Converting Angles 320°

$$\textcircled{1} \quad 320^\circ \cdot \frac{\pi}{180} = \frac{320^\circ}{180} \pi = \boxed{\frac{16\pi}{9}} \text{ exact}$$

$\approx 5.59 \text{ rad}$ approx
Q4

$$\textcircled{2} \quad 36^\circ \cdot \frac{\pi}{180} = \frac{36}{180} \pi = \boxed{\frac{\pi}{5}} \text{ exact}$$

$\approx 0.63 \text{ rad}$ approx
Q1

$$\textcircled{3} \quad 126^\circ \cdot \frac{\pi}{180} = \frac{126}{180} \pi = \boxed{\frac{7\pi}{10}} \text{ exact}$$

$\approx 2.20 \text{ rad}$ approx
Q2

$$\textcircled{4} \quad 420^\circ \cdot \frac{\pi}{180} = \frac{420}{180} \pi = \boxed{\frac{7\pi}{3}} \text{ exact}$$

$\approx 7.33 \text{ rad}$ approx
Q1

Converting Angles Solutions $\sqrt{\frac{25\pi}{18}}$

$$1) \frac{25\pi}{18} \cdot \frac{180}{\pi} = \frac{25 \cdot 180}{18} \frac{\pi}{\pi} = \boxed{250^\circ}$$

Q3

$$2) \frac{32\pi}{5} \cdot \frac{180}{\pi} = \frac{32 \cdot 180}{5} \frac{\pi}{\pi} = \boxed{1152^\circ} \quad Q1$$

1152° is coterminal
to 72°

$$360 \overline{) 1152} \begin{array}{r} 3 \text{ r } 72 \\ 1080 \\ \hline 72 \end{array}$$

$3 \frac{72}{360}$ rev

$$3) 5.6 \cdot \frac{180}{\pi} = \frac{5.6 \cdot 180}{\pi} = \frac{1008}{\pi} \approx \boxed{320.86^\circ}$$

Q4

$$4) \frac{18}{\pi} \cdot \frac{180}{\pi} = \frac{3240}{\pi^2} \approx \boxed{328.28^\circ}$$

Q4