Answer key

The method: Degrees and radians

180° = π radians. Degrees to radians: multiply by π/180. Radians to degrees: multiply by 180/π.

$330°$ in radians $= \frac{11\pi}{6}$ $\quad\quad$ $\frac{8\pi}{3}$ in degrees $= 480°$

$330 \times \frac{\pi}{180} = \frac{11\pi}{6}$ multiply by π/180 $\quad\quad$ $\frac{8\pi}{3} \times \frac{180}{\pi} = 480$ multiply by 180/π

Problems 1 and 2 worked out · Version 0A

$\frac{5\pi}{6}$ in degrees $= 150°$ $\quad\quad$ $\frac{8\pi}{3}$ in degrees $= 480°$

$\frac{5\pi}{6} \times \frac{180}{\pi} = 150$ multiply by 180/π $\quad\quad$ $\frac{8\pi}{3} \times \frac{180}{\pi} = 480$ multiply by 180/π

Degrees and radians · Version 0A

1) 150° 2) 480° 3) $\frac{19\pi}{6}$ 4) $\frac{10\pi}{3}$ 5) 450° 6) $\frac{23\pi}{6}$

7) 510° 8) 450° 9) $\frac{\pi}{3}$ 10) $\frac{17\pi}{6}$ 11) $\frac{9\pi}{4}$ 12) $\frac{\pi}{4}$

13) $\frac{15\pi}{4}$ 14) $\frac{7\pi}{4}$ 15) $\frac{13\pi}{6}$ 16) $\frac{17\pi}{6}$ 17) $\frac{7\pi}{2}$

18) 405° 19) 225° 20) $\frac{\pi}{2}$ 21) $\frac{\pi}{3}$ 22) 510°

23) $\frac{11\pi}{3}$ 24) 480° 25) 570° 26) $\frac{11\pi}{4}$ 27) $\frac{\pi}{3}$

28) 450° 29) 60° 30) $\frac{13\pi}{6}$ 31) $\frac{13\pi}{4}$ 32) $\frac{3\pi}{4}$

33) 570° 34) 150°