

## WRITTEN EXERCISES

Use a calculator or table to find the value of each expression to the nearest tenth of a degree.

- A**
- a.  $\sin^{-1} 0.9$       b.  $\sin^{-1} (-0.9)$       c.  $\cos^{-1} \frac{3}{4}$       d.  $\cos^{-1} \left(-\frac{3}{4}\right)$

a.  $\tan^{-1} \frac{7}{3}$       b.  $\tan^{-1} \left(-\frac{7}{3}\right)$       c.  $\cos^{-1} 0.4$       d.  $\cos^{-1} (-0.4)$
  - a.  $\tan^{-1} 0.23$       b.  $\tan^{-1} (-0.23)$       c.  $\cos^{-1} 0.345$       d.  $\cos^{-1} (-0.345)$

a.  $\sin^{-1} \frac{3}{8}$       b.  $\sin^{-1} \left(-\frac{3}{8}\right)$       c.  $\cos^{-1} \frac{5}{6}$       d.  $\cos^{-1} \left(-\frac{5}{6}\right)$

Use a calculator or table to find the value of each expression to the nearest hundredth of a radian.

Without using a calculator or table, find the value of each expression in radians. Many answers can be given in terms of  $\pi$ .

- a.  $\sin^{-1} 0$       b.  $\cos^{-1} 0$       c.  $\tan^{-1} 1$       d.  $\tan^{-1} (-1)$

a.  $\sin^{-1} 1$       b.  $\sin^{-1} (-1)$       c.  $\cos^{-1} 1$       d.  $\cos^{-1} (-1)$
- a.  $\sin^{-1} \frac{1}{2}$       b.  $\sin^{-1} \left(-\frac{1}{2}\right)$       c.  $\cos^{-1} \frac{1}{2}$       d.  $\cos^{-1} \left(-\frac{1}{2}\right)$

a.  $\sin^{-1} \frac{\sqrt{2}}{2}$       b.  $\sin^{-1} \left(-\frac{\sqrt{2}}{2}\right)$       c.  $\cos^{-1} \frac{\sqrt{2}}{2}$       d.  $\cos^{-1} \left(-\frac{\sqrt{2}}{2}\right)$