

Answers

- Q1** a) $140^\circ, 220^\circ, 320^\circ$ b) $110^\circ, 250^\circ, 290^\circ$ c) $155^\circ, 205^\circ, 335^\circ$
d) $80^\circ, 260^\circ, 280^\circ$ e) $30^\circ, 210^\circ, 330^\circ$ f) $45^\circ, 135^\circ, 315^\circ$
g) $80^\circ, 100^\circ, 280^\circ$ h) $50^\circ, 130^\circ, 230^\circ$ i) $5^\circ, 175^\circ, 185^\circ$
- Q2** a) $\frac{1}{2}$ b) $-\frac{1}{2}$ c) $-\frac{1}{2}$
- Q3** a) $-\frac{1}{\sqrt{2}}$ b) $-\frac{1}{\sqrt{2}}$ c) $\frac{1}{\sqrt{2}}$
- Q4** a) $-\sqrt{3}$ b) $\sqrt{3}$ c) $-\sqrt{3}$
- Q5** a) $\sin 270^\circ, \sin 335^\circ, \sin 100^\circ, \sin 90^\circ$
b) $\cos 180^\circ, \cos 236^\circ, \cos 350^\circ, \cos 0^\circ$
c) $\tan 295^\circ, \tan 180^\circ, \tan 65^\circ$
- Q6** a) $x = 17.5^\circ$ or 162.5° b) $x = 134.4^\circ$ or 225.6° c) $x = 21.8^\circ$ or 201.8°
d) $x = 202.0^\circ$ or 338.0° e) $x = 55.9^\circ$ or 304.1° f) $x = 116.6^\circ$ or 296.6°
g) $x = 48.2^\circ$ or 131.8° h) $x = 156.9^\circ$ or 203.1° i) $x = 170.5^\circ$ or 350.5°
- Q7** a) $x = 11.5^\circ$ or 168.5° b) $x = 131.8^\circ$ or 228.2° c) $x = 31.0^\circ$ or 211.0°
d) $x = 14.5^\circ$ or 165.5° e) $x = 64.6^\circ$ or 295.4° f) $x = 119.7^\circ$ or 299.7°
g) $x = 23.6^\circ$ or 156.4° h) $x = 138.6^\circ$ or 221.4° i) $x = 80.5^\circ$ or 260.5°
j) $x = 221.8^\circ$ or 318.2° k) $x = 70.5^\circ$ or 289.5° l) $x = 110.6^\circ$ or 290.6°