

## Revision Exercise (Trigonometry II)

1.

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|---|---|
| a) $23.61^\circ$ (0.41 rad), $156.42^\circ$ (2.73 rad)                      | j) $48.59^\circ$ (0.85 rad), $131.44^\circ$ (2.29 rad)  |
| b) $66.41^\circ$ (1.16 rad), $293.53^\circ$ (5.12 rad)                      | k) $2.86^\circ$ (0.05 rad), $182.89^\circ$ (3.19 rad)   |
| c) $21.83^\circ$ (0.38 rad), $201.80^\circ$ (3.52 rad)                      | l) $104.45^\circ$ (1.82 rad), $255.54^\circ$ (4.46 rad) |
| d) $323.15^\circ$ (5.64 rad), $216.86^\circ$ (3.79 rad)                     | m) $41.83^\circ$ (0.73 rad), $138.20^\circ$ (2.41 rad)  |
| e) $126.85^\circ$ (2.21 rad), $233.14^\circ$ (4.07 rad)                     | n) $21.83^\circ$ (0.38 rad), $201.80^\circ$ (3.52 rad)  |
| f) $149.03^\circ$ (2.60 rad), $329.05^\circ$ (5.74 rad)                     | o) $20.51^\circ$ (0.36 rad), $159.51^\circ$ (2.78 rad)  |
| g) $270^\circ$ ( $\frac{3\pi}{2}$ rad)                                      | p) $80.79^\circ$ (1.41 rad), $279.20^\circ$ (4.87 rad)  |
| h) $180^\circ$ ( $\pi$ rad)   | q) $59.01^\circ$ (1.03 rad), $239.04^\circ$ (4.17 rad)  |
| i) $135^\circ$ ( $\frac{3\pi}{4}$ rad), $315^\circ$ ( $\frac{7\pi}{4}$ rad) | r) $315.59^\circ$ (5.51 rad), $224.43^\circ$ (3.92 rad) |

2.

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|---|---|
| a) $78.44^\circ$ (1.37 rad), $281.55^\circ$ (4.91 rad)  | f) $170.51^\circ$ (2.98 rad), $350.54^\circ$ (6.12 rad)                     |
| b) $101.53^\circ$ (1.77 rad), $258.46^\circ$ (4.51 rad) | g) $135^\circ$ ( $\frac{3\pi}{4}$ rad), $315^\circ$ ( $\frac{7\pi}{4}$ rad) |
| c) $19.48^\circ$ (0.34 rad), $160.54^\circ$ (2.80 rad)  | h) $41.83^\circ$ (0.73 rad), $138.20^\circ$ (2.41 rad)                      |
| d) $345.55^\circ$ (6.03 rad), $194.46^\circ$ (3.39 rad) | i) $14.04^\circ$ (0.24 rad), $194.06^\circ$ (3.39 rad)                      |
| e) $9.45^\circ$ (0.17 rad), $189.48^\circ$ (3.31 rad)   |   |

3.

- a)  $60^\circ$  ( $\frac{\pi}{3}$  rad),  $120^\circ$  ( $\frac{2\pi}{3}$  rad),  $240^\circ$  ( $\frac{4\pi}{3}$  rad),  $300^\circ$  ( $\frac{5\pi}{3}$  rad)
- b)  $0^\circ$  (0 rad),  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $180^\circ$  ( $\pi$  rad),  $360^\circ$  ( $2\pi$  rad)
- c)  $0^\circ$  (0 rad),  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $270^\circ$  ( $\frac{3\pi}{2}$  rad),  $360^\circ$  ( $2\pi$  rad)
- d)  $0^\circ$  (0 rad),  $45^\circ$  ( $\frac{\pi}{4}$  rad),  $180^\circ$  ( $\pi$  rad),  $225^\circ$  ( $\frac{5\pi}{4}$  rad),  $360^\circ$  ( $2\pi$  rad)
- e)  $0^\circ$  (0 rad),  $180^\circ$  ( $\pi$  rad),  $194.46^\circ$  (3.39 rad),  $345.55^\circ$  (6.03 rad),  $360^\circ$  ( $2\pi$  rad)
- f)  $0^\circ$  (0 rad),  $19.48^\circ$  (0.34 rad),  $160.54^\circ$  (2.80 rad),  $180^\circ$  ( $\pi$  rad),  $360^\circ$  ( $2\pi$  rad)
- g)  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $270^\circ$  ( $\frac{3\pi}{2}$  rad)
- h)  $75.52^\circ$  (1.32 rad),  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $270^\circ$  ( $\frac{3\pi}{2}$  rad),  $284.47^\circ$  (4.97 rad)
- i)  $0^\circ$  (0 rad),  $75.97^\circ$  (1.33 rad),  $180^\circ$  ( $\pi$  rad),  $255.94^\circ$  (4.47 rad),  $360^\circ$  ( $2\pi$  rad)
- j)  $60^\circ$  ( $\frac{\pi}{3}$  rad),  $70.53^\circ$  (1.23 rad),  $289.46^\circ$  (5.05 rad),  $300^\circ$  ( $\frac{5\pi}{3}$  rad)
- k)  $19.48^\circ$  (0.34 rad),  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $160.54^\circ$  (2.80 rad),  $270^\circ$  ( $\frac{3\pi}{2}$  rad)
- l)  $41.42^\circ$  (0.72 rad),  $180^\circ$  ( $\pi$  rad),  $318.56^\circ$  (5.56 rad)

m)  $56.32^\circ$  (0.98 rad),  $63.43^\circ$  (1.11 rad),  $236.29^\circ$  (4.12 rad),  $243.45^\circ$  (4.25 rad)

n)  $41.83^\circ$  (0.73 rad),  $138.20^\circ$  (2.41 rad)

o)  $194.46^\circ$  (3.39 rad),  $345.55^\circ$  (6.03 rad)

p)  $24.47^\circ$  (0.43 rad),  $155.56^\circ$  (2.72 rad)

q)  $90^\circ$  ( $\frac{\pi}{2}$  rad),  $191.54^\circ$  (3.34 rad),  $348.47^\circ$  (6.08 rad)