

## 3 Sine waves and inverse trig — Part 2

### — Answers

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Work through these after you have tried the questions yourself.

**2.1** it ranges from  $-1$  to  $1$ , and its period is  $2\pi$ .

**2.2** amplitude =  $5$ .

**2.3** amplitude =  $2$ ; period =  $\frac{2\pi}{3}$ .

**2.4** midline  $y = 2$ ; maximum =  $2 + 4 = 6$ ; minimum =  $2 - 4 = -2$ .

**2.5** it takes a ratio and returns the angle that produces it (the reverse of sine, cosine, or tangent).