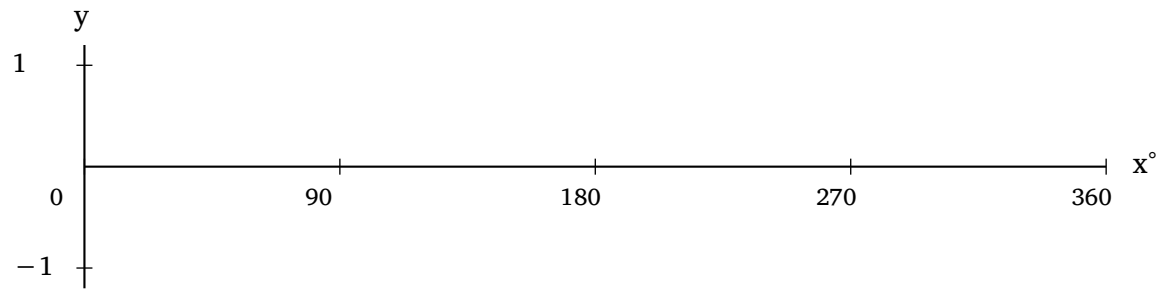
TRIGONOMETRIC GRAPHS AND EQUATIONS

Best Guess Mastery Worksheet · Paper 2H

I Do

(a) Sketch the graph of $y = \cos x^\circ$ for $0 \leq x \leq 360$.



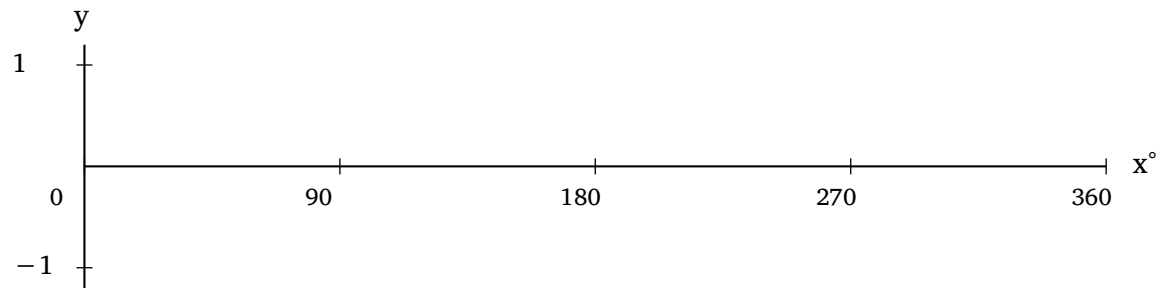
(2)

(b) Solve $2 \cos x^\circ = 1$ for $0 \leq x \leq 360$.

(2)

We Do

(a) Sketch the graph of $y = \sin x^\circ$ for $0 \leq x \leq 360$.



(2)

(b) Solve $5 \sin x^\circ = 2.5$ for $0 \leq x \leq 360$.

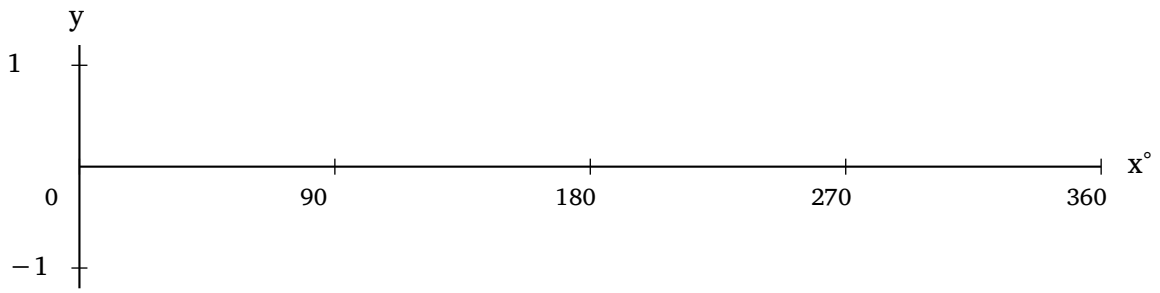
(2)

TRIGONOMETRIC GRAPHS AND EQUATIONS

Best Guess Mastery Worksheet · Paper 2H

You Do 1

(a) Sketch the graph of $y = \cos x^\circ$ for $0 \leq x \leq 360$.



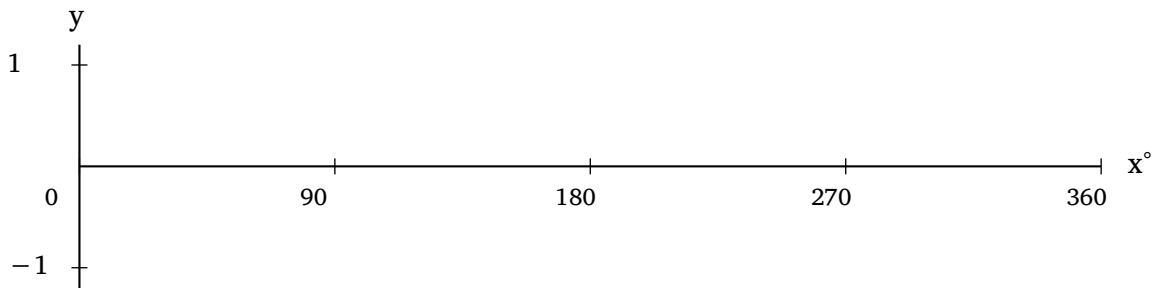
(2)

(b) Solve $4 \cos x^\circ = -2$ for $0 \leq x \leq 360$.

(2)

You Do 2

(a) Sketch the graph of $y = \sin x^\circ$ for $0 \leq x \leq 360$.



(2)

(b) Solve $2 \sin x^\circ = \sqrt{3}$ for $0 \leq x \leq 360$.

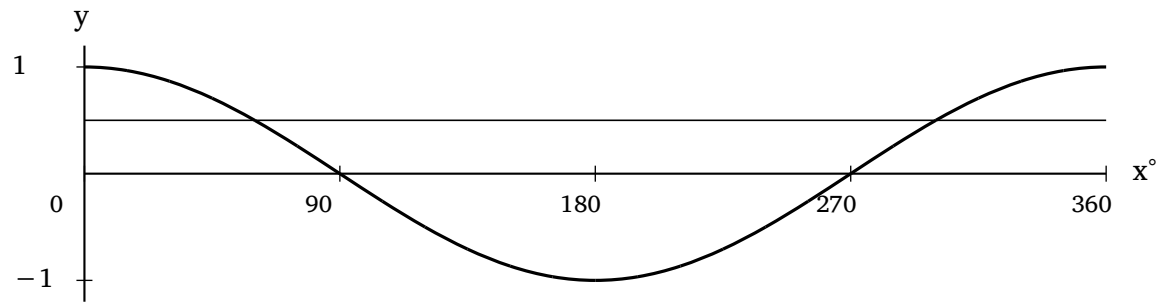
(2)

TRIGONOMETRIC GRAPHS AND EQUATIONS — ANSWERS

Best Guess Mastery Worksheet · Paper 2H

I Do — Worked Answer

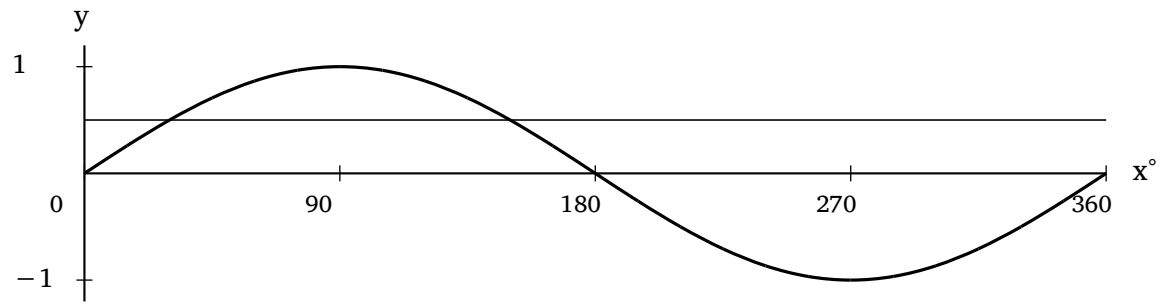
(a) Smooth curve through (0,1), (90,0), (180, −1), (270,0), (360,1).



(b) $2\cos x^\circ = 1 \Rightarrow \cos x^\circ = 0.5$.
Reference angle $= 60^\circ$; use quadrants I and IV.
$x = 60^\circ$ or 300°.

We Do — Worked Answer

(a) Smooth curve through (0,0), (90,1), (180,0), (270, −1), (360,0).



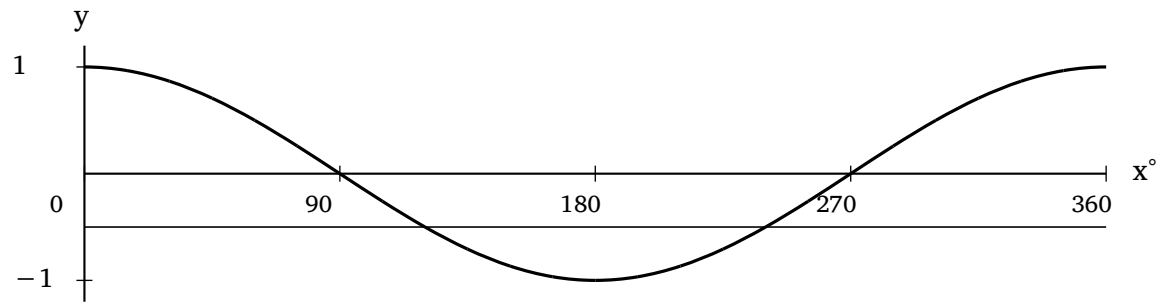
(b) $5\sin x^\circ = 2.5 \Rightarrow \sin x^\circ = 0.5$.
Reference angle $= 30^\circ$; use quadrants I and II.
$x = 30^\circ$ or 150°.

TRIGONOMETRIC GRAPHS AND EQUATIONS — ANSWERS

Best Guess Mastery Worksheet · Paper 2H

You Do 1 — Worked Answer

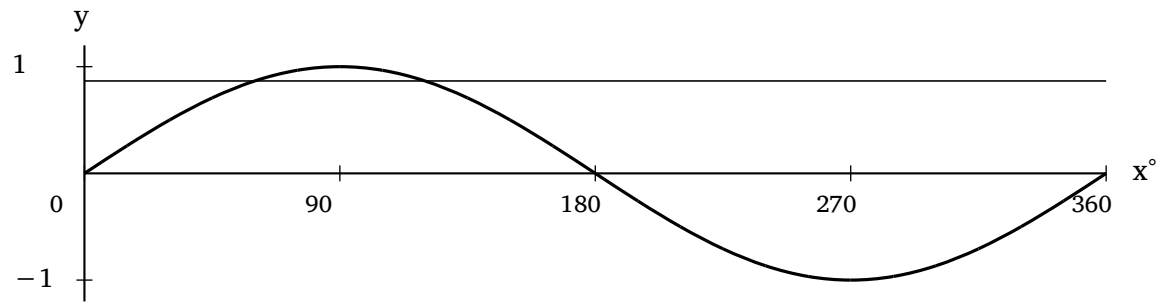
(a) Smooth curve through (0,1), (90,0), (180, −1), (270,0), (360,1).



(b) $4\cos x^\circ = -2 \Rightarrow \cos x^\circ = -0.5$.
Reference angle $= 120^\circ$; use quadrants II and III.
$x = 120^\circ$ or 240°.

You Do 2 — Worked Answer

(a) Smooth curve through (0,0), (90,1), (180,0), (270, −1), (360,0).



(b) $2\sin x^\circ = \sqrt{3} \Rightarrow \sin x^\circ = \sqrt{3}/2$.
Reference angle $= 60^\circ$; use quadrants I and II.
$x = 60^\circ$ or 120°.