

Exercise 1

Match each function with the correct graph:

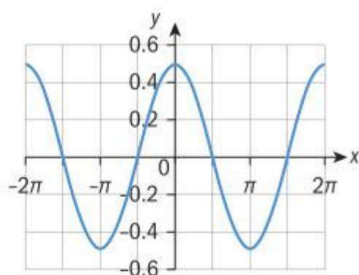
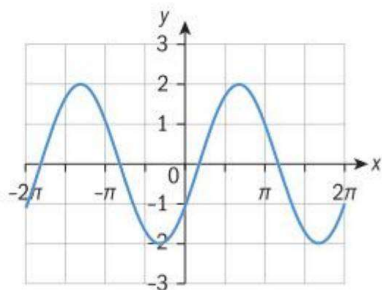
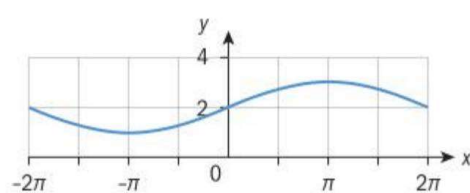
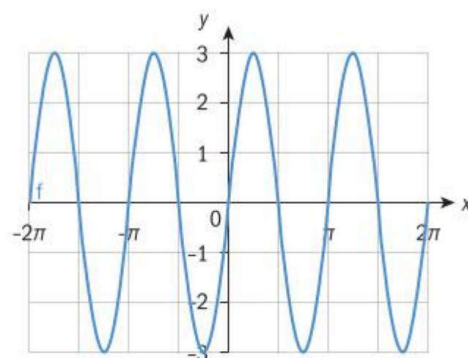
i, ii, iii or iv.

a $y = 3 \sin 2x$

b $y = -2 \cos x + 1$

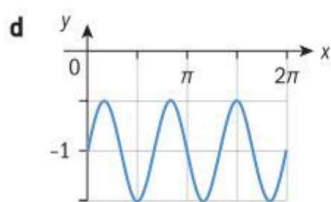
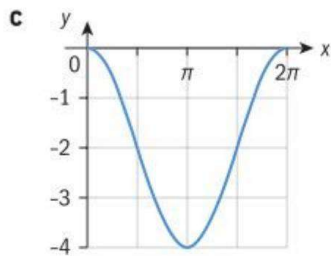
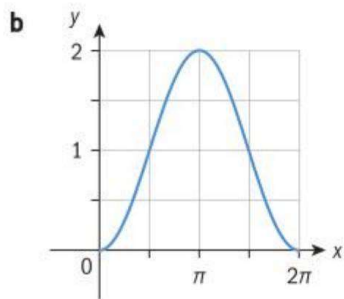
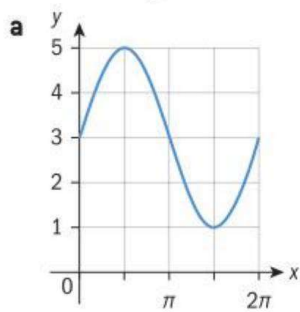
c $y = \frac{1}{2} \sin\left(x + \frac{\pi}{2}\right)$

d $y = \sin\left(\frac{1}{2}\right)x + 2$

i**ii****iii****iv**

Exercisew 2 & 3

2 Find the equations of each function.



3 Sketch the graph of each function for $0 \leq x \leq 2\pi$.

a $y = 2 + 3 \sin 2x$

b $y = 0.5 \sin\left(x + \frac{\pi}{3}\right)$

c $y = \cos(x + \pi) - 1$

d $y = 2 - 2 \sin 2x$

e $y = 2 \cos 3(x + \pi) + 1$

— ANSWERS —

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i, ii, iii or iv.

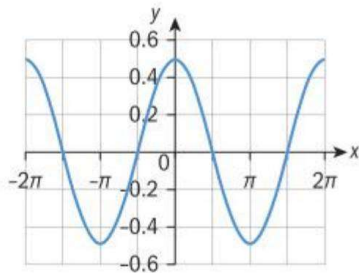
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b $y = -2 \cos x + 1$

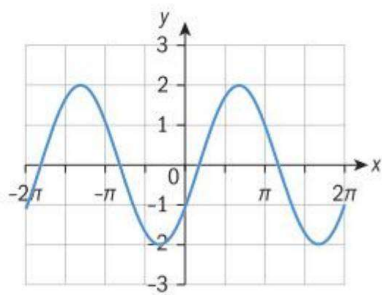
c $y = \frac{1}{2} \sin \left(x + \frac{\pi}{2} \right)$

d $y = \sin \left(\frac{1}{2} \right) x + 2$

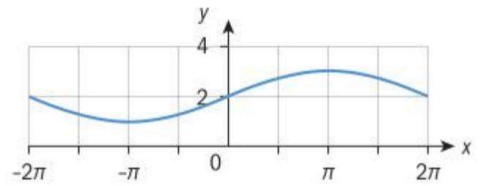
i



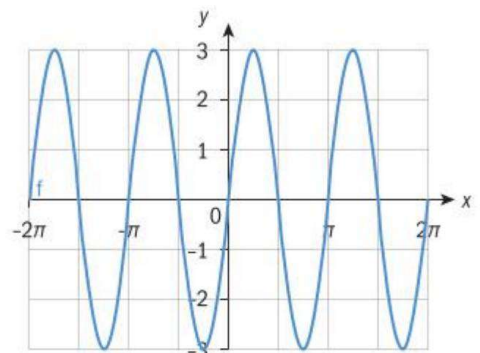
ii



iii



iv

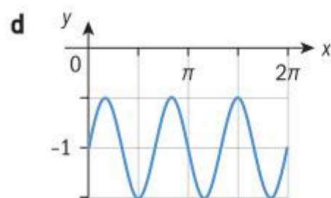
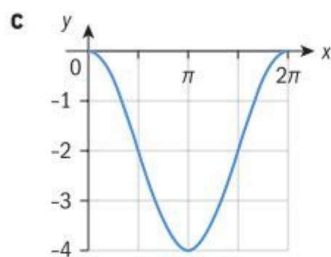
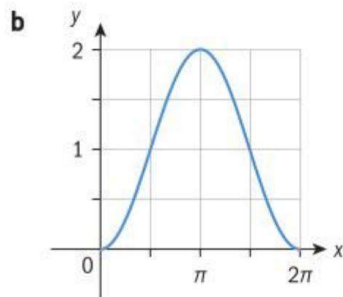
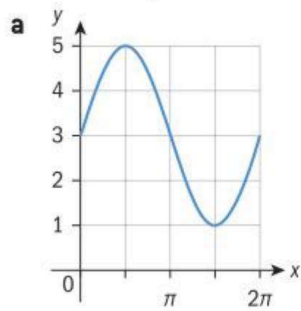


a iv **b** ii

c i **d** iii

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e $y = 2 \cos 3(x + \pi) + 1$

2 **a** $y = 2 \sin x + 3$

b $y = \cos(x - \pi) + 1$

c $y = 2 \cos(x) - 2$

d $y = 0.5 \sin(3x) - 1$

