

Examples



Workout

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Question 1: Write down the exact values of each of the following

- (a) $\sin 30^\circ$ (b) $\cos 0^\circ$ (c) $\tan 45^\circ$ (d) $\sin 90^\circ$ (e) $\sin 0^\circ$
(f) $\cos 60^\circ$ (g) $\tan 0^\circ$ (h) $\sin 45^\circ$ (i) $\cos 30^\circ$ (j) $\tan 60^\circ$
(k) $\cos 90^\circ$ (l) $\sin 60^\circ$ (m) $\cos 45^\circ$ (n) $\tan 30^\circ$

Question 2: Write down the exact values of each of the following

- (a) $\cos 60^\circ + \sin 30^\circ$ (b) $\cos 0^\circ + \tan 45^\circ + \sin 90^\circ$
(c) $\sin 30^\circ + \sin 90^\circ$ (d) $\sin 45^\circ + \cos 45^\circ$

Question 3: Write down the exact values of each of the following

- (a) $\sin 45^\circ + \cos 45^\circ$ (b) $\tan 30^\circ + \tan 60^\circ$ (c) $\cos 30^\circ + \sin 60^\circ$

Question 4: Write down the values of each of the following

- (a) $\sin 180^\circ$ (b) $\cos 270^\circ$ (c) $\tan 360^\circ$ (d) $\sin 360^\circ$
(e) $\sin 270^\circ$ (f) $\cos 180^\circ$ (g) $\cos 360^\circ$ (h) $\cos 450^\circ$
(i) $\sin 720^\circ$ (j) $\sin 900^\circ$ (k) $\cos 990^\circ$ (l) $\sin 1710^\circ$

Question 5: Write down the exact values of each of the following

- (a) $\sin 120^\circ$ (b) $\cos 150^\circ$ (c) $\tan 135^\circ$ (d) $\cos 210^\circ$
(e) $\tan 120^\circ$ (f) $\sin 240^\circ$ (g) $\sin 225^\circ$ (h) $\cos 315^\circ$
(i) $\sin 150^\circ$ (j) $\tan 405^\circ$ (k) $\sin 495^\circ$ (l) $\cos 870^\circ$

Apply

Question 1: Using the triangle below, explain each of the following.

(a) $\sin(30^\circ) = \frac{1}{2}$

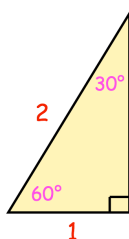
(b) $\cos(30^\circ) = \frac{\sqrt{3}}{2}$

(c) $\tan(30^\circ) = \frac{\sqrt{3}}{3}$

(d) $\sin(60^\circ) = \frac{\sqrt{3}}{2}$

(e) $\cos(60^\circ) = \frac{1}{2}$

(f) $\tan(60^\circ) = \sqrt{3}$

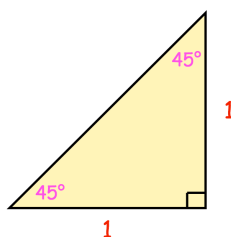


Question 2: Using the triangle below, explain each of the following.

(a) $\tan(45^\circ) = 1$

(b) $\sin(45^\circ) = \frac{\sqrt{2}}{2}$

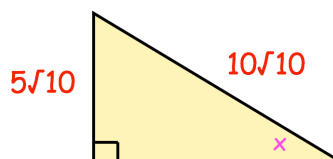
(c) $\cos(45^\circ) = \frac{\sqrt{2}}{2}$



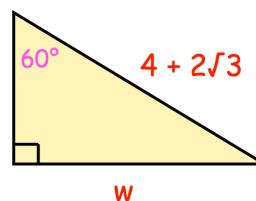
Question 3: Conor says that $\cos(45^\circ) = \frac{1}{\sqrt{2}}$

Is he correct?

Question 4: Find the size of the angle labeled x.



Question 5: Find the exact length of the side labelled w.



Answers