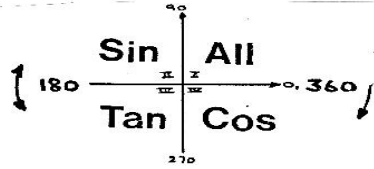


Mathematics Revision Exercises

Using the 4 Quadrants



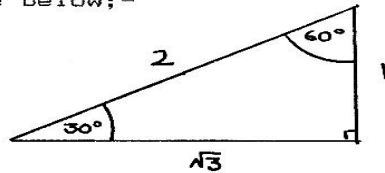
All answers to 1 decimal place.

1. Find all possible values for x° in the interval $0^\circ \leq x \leq 360^\circ$ for each of the following:-

a) $\sin x^\circ = 0.707$	b) $\cos x^\circ = 0.707$	c) $\tan x^\circ = 0.577$
d) $\cos x^\circ = 0.5$	e) $\sin x^\circ = 0.5$	f) $\tan x^\circ = 0.5$
g) $\tan x^\circ = 28.636$	h) $\sin x^\circ = 0.996$	i) $\cos x^\circ = 0.643$
2. Given that $0^\circ \leq x \leq 360^\circ$, find all possible values for x :-

a) $\sin x^\circ = -0.707$	b) $\cos x^\circ = -0.707$	c) $\tan x^\circ = -1$
d) $\cos x^\circ = -0.423$	e) $\sin x^\circ = -0.966$	f) $\tan x^\circ = -2.747$
g) $\sin x^\circ = -0.259$	h) $\cos x^\circ = -0.574$	i) $\tan x^\circ = -0.839$
3. Using the same interval as before, find all possible values for x° :-

a) $\sin x^\circ = 0.174$	b) $\cos x^\circ = -0.809$	c) $\tan x^\circ = 1.455$
d) $\sin x^\circ = 0$	e) $\cos x^\circ = 0$	f) $\tan x^\circ = 0$
g) $\sin x^\circ = 1$	h) $\tan x^\circ = 1/\sqrt{3}$	i) $\cos x^\circ = -1$
4. Write down the exact value for $\sin 60^\circ$, $\cos 30^\circ$ and $\tan 60^\circ$ using the triangle below:-



- ANSWERS
1. a) $45^\circ, 135^\circ$ b) $45^\circ, 315^\circ$ c) $30^\circ, 210^\circ$ d) $60^\circ, 300^\circ$ e) $30^\circ, 150^\circ$ f) $26.6^\circ, 206.6^\circ$ g) $88^\circ, 268^\circ$
 h) $84.9^\circ, 95.1^\circ$ i) $50^\circ, 310^\circ$
 2. a) $225^\circ, 315^\circ$ b) $225^\circ, 135^\circ$ c) $135^\circ, 315^\circ$ d) $245^\circ, 115^\circ$ e) $255^\circ, 285^\circ$ f) $110^\circ, 290^\circ$ g) $195^\circ, 345^\circ$
 h) $125^\circ, 235^\circ$ i) $140^\circ, 320^\circ$
 3. a) $10^\circ, 170^\circ$ b) $216^\circ, 144^\circ$ c) $55.5^\circ, 235.5^\circ$ d) $0^\circ, 180^\circ, 360^\circ$ e) $90^\circ, 270^\circ$ f) $180^\circ, 360^\circ$ g) 90°
 h) $30^\circ, 210^\circ$ i) 180°
 4. $\sin 60^\circ = \sqrt{3}/2$, $\cos 30^\circ = \sqrt{3}/2$, $\tan 60^\circ = \sqrt{3}$