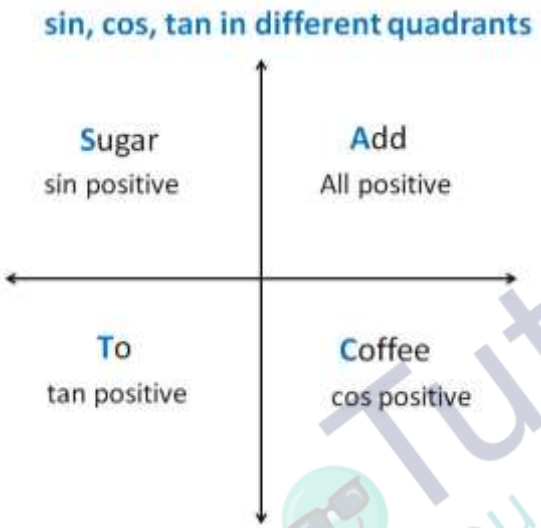


1. $x°$ is an **obtuse** angle and sin$x°$ =0.43 .
   Find the value of x. [2]
   0580/22/O/N/18 Q12)

2. sin x= cos 40°, 0° ≤ x ≤180°
   Find the two values of x. [2]
   0580/43/M/J/14 Q3(c)

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3. sin x = $\sqrt{3}/2$ for values of x between 0° and 360°
0580 syllabus for 2020, 2021 and 2022.

4. Solve 4sin$x$ - 1 = 2 for 0° ≤ x ≤ 360°. [3]
0580/41/M/J/20 Q8 (b)

5. Solve the equation 4cos$x$ + 2 = 3 for 0° ≤ x ≤ 360° . [3]
0580/22/F/M/20 Q19 (b)

6. Solve the equation 3cos$x$ = 1 for 0° ⩽ x ⩽ 360°. Give your answers correct to 1 decimal place. [4]
0580/04/SP/20 Q8 (a)

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7. Given that $0 \leq x \leq 360$. Solve the following equations.

(i) $7\sin x + 2 = 0$ [2]

(ii) $\cos x = 1/2$ [2]

(iii) $\tan x = -\sqrt{3}$ [2]

(iv) $\tan x = 2$ [2]

(v) $3\tan x = -4$ [3]

(vi) $4\sin x - 1 = 2$ [3]

(vii) $5\tan x = -7$ [3]

(viii) $3\sin x + 1 = 0$ [3]

(ix) $\cos x = -1/2$ [2]

(x) $3 - 2\sin x = \frac{13}{4}$ [3]

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8. (i) Solve the simultaneous equations. [1]

$$2p + q = 2$$
$$p - q = -\frac{1}{2}$$

(ii) Hence, for $0° \leqslant u \leqslant 360°$ and $0° \leqslant v \leqslant 360°$, solve the simultaneous equations. [4]

$$2\sin u + \cos v = 2$$
$$\sin u - \cos v = -\frac{1}{2}$$

0580/41/M/J/22 Q3)

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Answers

1) 154.5
2) 50 , 130
3) 60° and 120°
4) 48.6 and 131.4
5) 75.5 and 284.4 to 284.5
6) 70.5 and 289.5
7) (i) 196.6 & 343.4 (ii)60 & 300 (iii)120& 300 (iv) 63.4 & 243.4 (v) 126.9 & 306.9 (vi) 48.6 & 131.4 (vii) 125.5 & 305.5 (viii)199.4 & 340.5 (ix) 120 & 240 (x) 187.2 & 352.8
8) (i) p = $\frac{1}{2}$ and q = 1(c) (ii) u =30 , 150 and v = 0 , 360

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