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$$\Rightarrow -x^3 + 67x - 133 = 0$$

$$\text{or } x^3 - 67x + 133 = 0$$

$$\text{or } (x+9)(x^2 - 9x + 14) = 0$$

[$\because x = -9$ is a root]

$$\Rightarrow (x+9)(x-2)(x-7) = 0$$

$$\Rightarrow x = -9, 2, 7$$

\therefore The other two roots are $x = 2, 7$

Hence (3) is the correct answer.

27. Given A, B, C are in A.P.

$$\therefore 2B = A + C = 180^\circ - B \Rightarrow B = 60^\circ$$

$$\text{Now } b^2 = c^2 + a^2 - 2ca \cos B$$

$$= c^2 + a^2 - 2ca \cos 60^\circ = c^2 + a^2 - 2ca \left(\frac{1}{2}\right)$$

$$= c^2 + a^2 - ca$$

\therefore (2) is the correct answer.

28. We have $\sin^{-1}x + \cos^{-1}x = \frac{\pi}{2}$

$$\therefore \cos^{-1}x = \frac{\pi}{2} - \sin^{-1}x = \frac{\pi}{2} - \frac{\pi}{5} = \frac{3\pi}{10}$$

$$\left[\because \sin^{-1}x = \frac{\pi}{5} \text{ given} \right]$$

Hence (1) is the correct answer.

29. Given equation can be written as

$$\sin\left(\frac{\pi}{4} + x\right) = \sqrt{2}$$

It has no solution, since maximum value of $\sin x$ is one.

\therefore (3) is the correct answer.

30. $\sin\theta + \cos\theta = 1 \Rightarrow (\sin\theta + \cos\theta)^2 = 1$

$$\Rightarrow \sin^2\theta + \cos^2\theta + 2\sin\theta\cos\theta = 1$$

$$\Rightarrow 1 + \sin 2\theta = 1 \quad \therefore \sin 2\theta = 0$$

Hence (3) is the correct answer.

31. The minimum value of $3\sin\theta + 4\cos\theta$ is

$$-\sqrt{3^2 + 4^2} \quad \text{i.e., } -5$$

\therefore (4) is the correct answer.

32. Given $\tan\theta = \frac{1}{2}$ and $\tan\phi = \frac{1}{3}$

$$\therefore \tan(\theta + \phi) = \frac{\tan\theta + \tan\phi}{1 - \tan\theta\tan\phi}$$

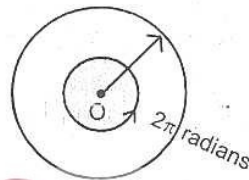
$$= \frac{\frac{1}{2} + \frac{1}{3}}{1 - \frac{1}{6}} = \frac{5/6}{5/6} = 1$$

$$\therefore \theta + \phi = \frac{\pi}{4}$$

Hence (4) is the correct answer.

33. In one complete revolution, angle made by OP at centre = 2π radians

\therefore Angle made by OP at the centre in 4 revolutions = $4 \times 2\pi = 8\pi$



$$\therefore \text{Angular velocity} = \frac{\text{Angle described}}{\text{time}}$$

$$= 8\pi \text{ radians/sec}$$

Hence (4) is the correct answer.

34. $|z + a|^2 = (z + a)(\overline{z + a})$

$$= (z + a)(\overline{z} + \overline{a}) = (z + a)(\overline{z} + a)$$

\therefore (3) is the correct answer.

35. We know that $\sqrt{a + ib}$

$$= \pm \left[\sqrt{\frac{\sqrt{a^2 + b^2} + a}{2}} + i \sqrt{\frac{\sqrt{a^2 + b^2} - a}{2}} \right]$$

$$\therefore 3 + 4i = \pm \left[\sqrt{\frac{5 + 3}{2}} + i \sqrt{\frac{5 - 3}{2}} \right]$$

$$= \pm \left[\sqrt{4} + i \right] = \pm (2 + i) = 2 + i$$

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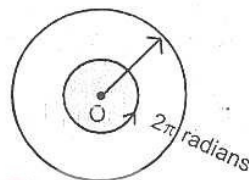
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