

Exercise 4A

Question 6:

(i) Let the required angle be x° Then, its complement = 90° - x°

 \therefore The measure of an angle which is equal to its complement is 45°. (ii) Let the required angle be x° Then, its supplement = 180° - x°

.. The measure of an angle which is equal to its supplement is 90°.

Question 7:

Let the required angle be x^o

Then its complement is 90° - x°

$$\Rightarrow \qquad \qquad x^{\circ} = \left(90^{\circ} - x^{\circ}\right) + 36^{\circ}$$

$$\Rightarrow \qquad x^{\circ} + x^{\circ} = 90^{\circ} + 36^{\circ}$$

$$\Rightarrow \qquad 2x^{\circ} = 126^{\circ}$$

$$\Rightarrow \qquad x = \frac{126}{2} = 63$$

 \therefore The measure of an angle which is 36° more than its complement is 63°.

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