

X - CBSE BOARD - 2018

CODE (30/3)

Date: 28.03.2018

Mathematics - Question Paper Solutions

SECTION A

1. What is the value of $(\cos^2 67^\circ - \sin^2 23^\circ)$?

Ans. $\cos^2 67^\circ - \sin^2 23^\circ$
 as $\cos(90^\circ - \theta) = \sin \theta$
 Let $\theta = 23^\circ$
 $\cos(90^\circ - 23^\circ) = \sin 23^\circ$
 $\cos 67^\circ = \sin 23^\circ$
 $\therefore \cos^2 67^\circ = \sin^2 23^\circ$
 $\therefore \cos^2 67^\circ - \sin^2 23^\circ = 0$

2. In an AP, if the common difference $(d) = -4$, and the seventh term (a_7) is 4, then find the first term.

Ans. $a_7 = 4$
 $a + 6d = 4$ (as $a_n = a + (n-1)d$)
 but $d = -4$
 $a + 6(-4) = 4$
 $a + (-24) = 4$
 $a = 4 + 24 = 28$
 Therefore first term $a = 28$

3. Given $\triangle ABC \sim \triangle PQR$, if $\frac{AB}{PQ} = \frac{1}{3}$, then find $\frac{\text{ar } \triangle ABC}{\text{ar } \triangle PQR}$.

Ans. $\frac{A(\triangle ABC)}{A(\triangle PQR)} = \frac{AB^2}{PQ^2}$ (Ratio of area of similar triangle is equal to square of their proportional sides)

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