



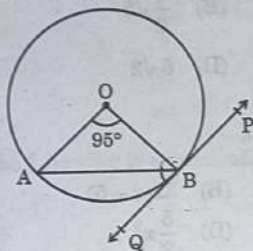
SECTION - A
(Multiple Choice Questions)

Each question is of 1 mark.

1. In what ratio, does x-axis divide the line segment joining the points A(3, 6) and B(-12, -3)?

(A) 1 : 2 (B) 1 : 4
(C) 4 : 1 (D) 2 : 1

2. In the given figure, PQ is tangent to the circle centred at O. If $\angle AOB = 95^\circ$, then the measure of $\angle ABQ$ will be



(A) 47.5° (B) 42.5°
(C) 85° (D) 95°

3. If $2 \tan A = 3$, then the value of $\frac{4 \sin A + 3 \cos A}{4 \sin A - 3 \cos A}$ is

(A) $\frac{7}{\sqrt{13}}$ (B) $\frac{1}{\sqrt{13}}$
(C) 3 (D) does not exist

4. In a group of 20 people, 5 can't swim. If one person is selected at random, then the probability that he/she can swim, is

(A) $\frac{3}{4}$ (B) $\frac{1}{3}$
(C) 1 (D) $\frac{1}{4}$