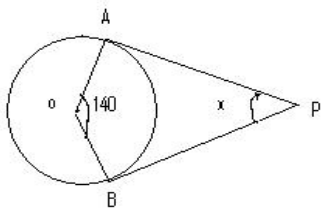




- If the equation $x^2 - ax + 1 = 0$ has no real roots, then
 - $a > 2$
 - $a < -2$
 - $-3 < a < 3$
 - $-2 < a < 2$
- If 8 times the eighth term of an A.P. is equal to 7 times the seventh term, then its 15th term is
 - 15
 - 22
 - 0
 - 23
- The value of x in following figure is



- 30
 - 45
 - 40
 - 50
- Two concentric circles are of radii 5cm and 3 cm. The length of the chord of the larger circle is
 - 9cm
 - 8.5cm
 - 8.2cm
 - 8cm
 - If two tangents are inclined with each other at an angle of 60° and are drawn to a circle of radius 3 cm, then the length of each tangent is equal to
 - $\frac{3\sqrt{3}}{2}$ cm
 - 6 cm
 - 3 cm
 - $3\sqrt{3}$ cm
 - The diameter of a semicircle is 14 cm. Its perimeter (in m) is
 - 22
 - 36
 - 44
 - 58
 - A solid sphere of radius r is melted and cast into shape of a solid cone of height r . Radius of the base of the cone is

(A). r	(B) $2r$	(C) $3r$	(D) $4r$
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