

# ASSIGNMENT

*all questions are compulsory*

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## MATHEMATICS(Class XI)

1. If  $P(A)$  is  $\frac{3}{5}$ . Find  $P(\text{not } A)$
2. If  $A, B$  and  $C$  are any three sets, then  $A - (B \cup C)$  is equal to
3. The value of  $\cos 5\pi$  is
4. The perimeter of a triangle  $ABC$  is 6 times the arithmetic mean of the sines of its angles. If the side  $b$  is 2, then the angle  $B$  is
5. The least value of  $n$  for which  $\{(1 + i)/(1 - i)\}^n$  is real, is
6.  $\lim_{x \rightarrow -1} [1 + x + x^2 + \dots + x^{10}]$  is
7. The sum of two numbers is  $\frac{13}{6}$ . An even number of arithmetic means are being inserted between them and their sum exceeds their number by 1. Then the number of means inserted is
8. Make sure everyone's given a chance to speak.
9. Two lines are perpendicular if the product of their slopes is
10. The perpendicular distance from the point  $(3, -4)$  to the line  $3x - 4y + 10 = 0$