

Maths Chapter Test

Chapter : AP , Quadratic Eqn & proportion

F:M – 20

Time – 40 min

1. If the sum of first 6 terms of an A.P is 36 and that of the first 16 terms is 256. Find the sum of first 10 terms. (3)
2. Find the sum :
 $-5 + (-8) + (-11) + \dots + (-230)$ (3)
3. Find the sum of all natural numbers less than 100 which are divisible by 6. (3)
4. Using properties of proportion, find x : (3)
$$\frac{\sqrt{5x} + \sqrt{2x - 6}}{\sqrt{5x} - \sqrt{2x - 6}} = 4$$
5. Solve : (3)
$$\frac{1 + x + x^2}{1 - x + x^2} = \frac{62(1 + x)}{63(1 - x)}$$
6. Solve the quadratic equation : (3)
 $x^2 - 3(x + 3) = 0$. give your answer correct to two significant figures.
7. Find the value of k for which $(k - 4)^2 + 2(k - 4)x + 4 = 0$ has equal roots. (2)

End of question paper

Best of Luck