

MAA MANGLA COACHING INSTITUTE

MANGLA BHAWAN MARANPUR GAYA

CLASS –X

DAILY PRACTICE PROBLEM

MATHEMATICS

1. Find the zeroes of the quadratic polynomial t^2-15 and verify its coefficients.
2. Find the value of k if the points A(2,3) ,B(4,k) and C (6,-3) are collinear.
3. In ΔPQR ,right angled at Q,PQ=3cm and PR= 6 cm.Determine $\angle QPR$ and $\angle PRQ$.
4. If $\sin (A-B)=\frac{1}{2}$, $\cos (A+B)=\frac{1}{2}$,Find A and B.
5. If the points A(6,1),B(8,2) ,C(9,4) and D(p,3) are the vertices of a parallelogram taken in order,Find the value of p.
6. If $P(E)=0.05$,what is the probability of 'not E'?
7. A die is thrown twice.What is the probability that
 - i) 5 will not come up either time?
 - li) 5 will come up at least once?
8. The median of the following data is 525.Find the value of x and y if total frequency is 100.

CLASS INTERVAL	FREQUENCY
0-100	2
100-200	5
200-300	X
300-400	12
400-500	17
500-600	20
600-700	y
700-800	9
800-900	7
900-1000	4

9. Prove: $\frac{\cos A}{1+\sin A} + \frac{1+\sin A}{\cos A} = 2 \sec A$
10. Find a relation between x and y if the points (x,y),(1,2) and (7,0) are collinear.