



MM 80

Answers Mathematics Mock Test IX Sep 2011

Time 3 Hours

Section A 1 Mark Each

Answers by

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1. **(b) $(x^2 + y^2 + xy)(x^2 + y^2 - xy)$**
2. **(c) -2**
3. **(b) 6**
4. **(a) $\sqrt{3}x^2$**
5. **(a) $AB = 2BC$**
6. **(a) 4**
7. **(c) $a^\circ + b^\circ - c^\circ = 180^\circ$**
8. **(d) $1 < BC < 7$**

Section B 2 Marks Each

9. **$(3x + y + z)(9x^2 + y^2 + z^2 - 3xy - yz - 3xz)$**
10. **No real zeros**
11. **No**
12. **$(8, 3), (8, -3), (-8, 3), (-8, -3)$**
13. **2**
14. **$80^\circ, 100^\circ$**

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Section C 3 Marks Each

15. **14**

16. $\frac{3\sqrt{2} + 2 - \sqrt{22}}{3}$

17. **1**

18. **$8a^3$**

22. **114 m^2**

Section D 4 Marks Each

25. **$(x + ay)(x + by)$**

26.

27. $\left(x - \frac{1}{x} + 1\right)\left(x^2 - \frac{1}{x^2} + 1 + \frac{1}{x} + 1 - x\right)$

28. **$a = 4, b = 1$**

34. **$(3, 5)$**

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