

Grade 9 - Second Unit Test

Practice Paper 2

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 2nd Quarter

Instructions:

- Duration: 1 hour
- Maximum marks: 20
- All questions are compulsory
- Show all your working clearly

Section A: Polynomials (8 Marks)

1. Answer the following:

[4 marks]

a) Write the degree of the polynomial $9y^6 - 2y^3 + 5y - 1$. = _____

b) Is $x + 1/x$ a polynomial? (Yes/No) = _____

c) Write the coefficient of ab in the term $8abc$. = _____

d) Add the polynomials: $(3p^2 + 2p - 1) + (p^2 - 5p + 4)$ = _____

2. Subtract the following polynomials:

[4 marks]

a) $(4a - 3)$ from $(8a + 5)$ = _____

b) $(2x^2 + 5x - 7)$ from $(6x^2 - x + 2) =$ _____

c) Multiply: $3a(a^2 + 2a - 4) =$ _____

d) Multiply: $(b + 3)(b - 6) =$ _____

Section B: Congruence of Triangles (6 Marks)

3. Answer the following:

[3 marks]

a) State the ASA congruence criterion. = _____

b) If in $\triangle LMN$ and $\triangle XYZ$, $LM=XY$, $\angle LMN=\angle XYZ$, and $MN=YZ$, then $\triangle LMN \cong \triangle XYZ$ by _____ criterion.

c) If in $\triangle PQR$ and $\triangle STU$, $\angle P=\angle S$, $\angle Q=\angle T$, and $PQ=ST$, then $\triangle PQR \cong \triangle STU$ by _____ criterion.

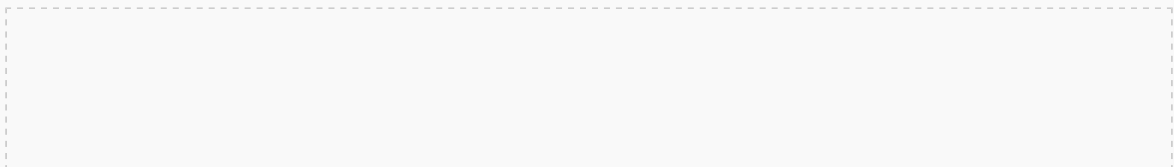
4. Answer the following:

[3 marks]

a) If $\triangle XYZ \cong \triangle PQR$, then side YZ corresponds to side _____. = _____

b) State the RHS congruence criterion. = _____

c) Draw a rough sketch of two triangles congruent by SAS criterion and mark the equal parts.

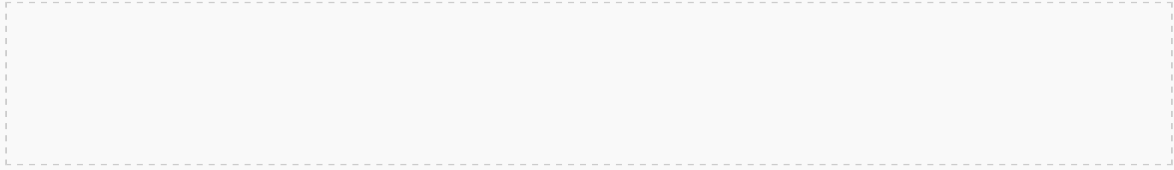


Section C: Construction of Triangles (6 Marks)

[6 marks]

5. Construct the following triangles (Rough sketch is sufficient for the paper):


a) Construct $\triangle PQR$ such that $PQ = 6$ cm, $QR = 7$ cm, and $PR = 8$ cm.



b) Construct $\triangle LMN$ such that $LM = 5$ cm, $\angle L = 70^\circ$, and $LN = 6$ cm.



c) Construct $\triangle STU$ such that $ST = 7$ cm, $\angle S = 60^\circ$, and $\angle T = 80^\circ$.



End of Practice Paper 2

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