**SET1**

# INDIAN SCHOOL SOHAR
# FORMATIVE ASSESSMENT- 2
# MATHEMATICS

**STD IX** **Marks : 20**

**02-06-14** **Time : 40min**

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**General Instructions:**

All questions are compulsory

This question paper consists of **9** questions divided into four sections **A** , **B** , **C** and **D**

**Section A** comprises of **3** questions of **1 mark** each

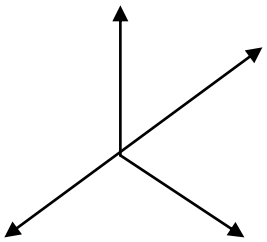
**Section B** comprises of **2** questions of **2 mark** each

**Section C** comprises of **3** questions of **3 mark** each

**Section D** comprises of **1** question of **4 mark**

## SECTION A

1. Find the value of k for which $(x - 1)$ is a factor of the polynomial $4x^3+3x^2-4x+k$
2. Expand using suitable identity : $(x-y+2z)^2$
3. State any two Euclids postulates.



## SECTION B

4. In this fig. if $x+y = w+z$ , then prove that AOB is a line.

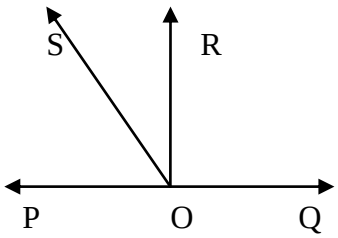
5. If a point Q lies between two points P and R such that PQ = RQ, then prove that PQ = $\frac{1}{2}$ PR. Explain by drawing the fig.

## SECTION C

6. If $2x-3 = a$, then prove that $8x^3 - 18ax = a^3+27$

7. In the fig. if AC = BD, then prove that AB = CD


8. In the fig. POQ is a line. Ray OR is perpendicular to line PQ. OS is another ray lying between the rays OP and OR. Prove that $\angle ROS = \frac{1}{2}(\angle QOS - \angle POS)$




## SECTION D

9. Factorise : $2x^3 - 3x^2 - 17x+30$

****** THE END ******