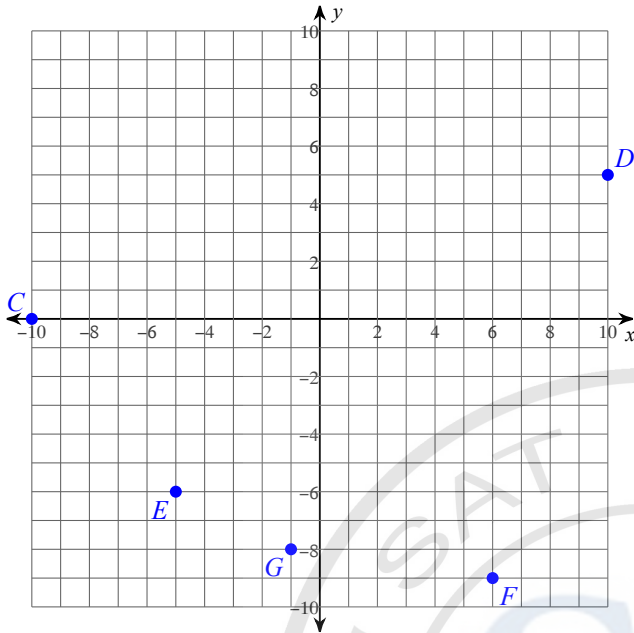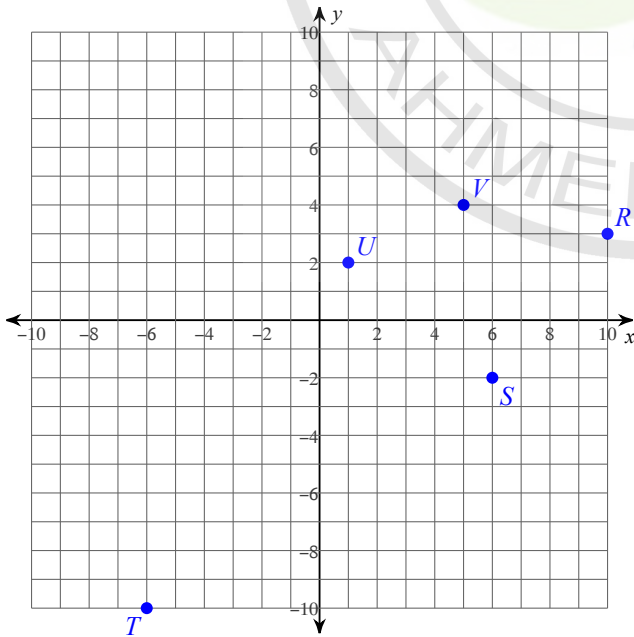**SATPREP**

Name_____

Assignment : Co-ordinate geometry

Date_____

State the coordinates of each point.

1)

2)

Find the midpoint of the line segment with the given endpoints.

3) $(3, -1), (-5, 3)$

4) $(-1, -1), (-2, -4)$

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

5) $(5, 4), (7, -5)$

6) $(0, 3), (8, 3)$

7) $(-2, -4), (8, 5)$

8) $(-8, 4), (-3, -5)$

Find the slope of the line through each pair of points.

9) $(19, 15), (-1, 16)$

10) $(20, 14), (-1, -10)$

Find the slope of each line.

11) $y = \frac{1}{3}x - 1$

12) $y = x - 2$

Find the slope of a line parallel to each given line.

13) $y = \frac{5}{4}x + 5$

14) $y = \frac{1}{4}x + 3$

Find the slope of a line perpendicular to each given line.

15) $y = \frac{1}{2}x - 3$

16) $y = \frac{8}{3}x - 3$

Answers to Assignment : Co-ordinate geometry

1) $G(-1, -8)$ $F(6, -9)$ $E(-5, -6)$
    $D(10, 5)$ $C(-10, 0)$

2) $V(5, 4)$ $U(1, 2)$ $T(-6, -10)$
    $S(6, -2)$ $R(10, 3)$

3) $(-1, 1)$

4) $\left(-1\frac{1}{2}, -2\frac{1}{2}\right)$

5) 9.2

6) 8

7) 13.5

8) 10.3

9) $-\dfrac{1}{20}$

10) $\dfrac{8}{7}$

11) $\dfrac{1}{3}$

12) 1

13) $\dfrac{5}{4}$

14) $\dfrac{1}{4}$

15) -2

16) $-\dfrac{3}{8}$