

ONE MARK TEST

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GOVERNMENT HIGHER SECONDARY SCHOOL

KOLIYANUR – VILLUPURAM DISTRICT



ENGLISH MEDIUM

LESSON – 5

TEST - 2

- 1 When proving that a quadrilateral is a parallelogram by using slopes you must find
 - (A) The slopes of two sides
 - (B) The slopes of two pair of opposite sides
 - (C) The lengths of all sides
 - (D) Both the lengths and slopes of two sides

- 2 The straight line given by the equation $x = 11$ is
 - (A) parallel to X axis
 - (B) parallel to Y axis
 - (C) passing through the origin
 - (D) passing through the point $(0,11)$

- 3 Consider four straight lines
 - (i) l_1 ; $3y = 4x + 5$
 - (ii) l_2 ; $4y = 3x - 1$
 - (iii) l_3 ; $4y + 3x = 7$
 - (iv) l_4 ; $4x + 3y = 2$Which of the following statement is true ?
 - (A) l_1 and l_2 are perpendicular
 - (B) l_1 and l_4 are parallel
 - (C) l_2 and l_4 are perpendicular
 - (D) l_2 and l_3 are parallel

- 4 The slope of the line which is perpendicular to a line joining the points $(0,0)$ and $(-8,8)$ is
 - (A) -1
 - (B) 1
 - (C) $\frac{1}{3}$
 - (D) -8

- 5 If A is a point on the Y axis whose ordinate is 8 and B is a point on the X axis whose abscissae is 5 then the equation of the line AB is
 - (A) $8x + 5y = 40$
 - (B) $8x - 5y = 40$
 - (C) $x = 8$
 - (D) $y = 5$

6 The area of triangle formed by the points $(-5,0)$, $(0,-5)$ and $(5,0)$ is
(A) 0 sq.units (B) 25 sq.units (C) 5 sq.units (D) none of these

7 A straight line has equation $8y = 4x + 21$. Which of the following is true
(A) The slope is 0.5 and the y intercept is 2.6
(B) The slope is 5 and the y intercept is 1.6
(C) The slope is 0.5 and the y intercept is 1.6
(D) The slope is 5 and the y intercept is 2.6

8 The point of intersection of $3x - y = 4$ and $x + y = 8$ is
(A) $(5,3)$ (B) $(2,4)$ (C) $(3,5)$ (D) $(4,4)$

9 When proving that a quadrilateral is a trapezium, it is necessary to show
(A) Two sides are parallel. (B) Two parallel and two non-parallel sides.
(C) Opposite sides are parallel. (D) All sides are of equal length.

10 If slope of the line PQ is $\frac{1}{\sqrt{3}}$ then slope of the perpendicular bisector of PQ is
(A) $\sqrt{3}$ (B) $-\sqrt{3}$ (C) $\frac{1}{\sqrt{3}}$ (D) 0