

5 marks:-

1. Find the area of a triangle whose Vertices are :
 - (i) $(-3, 5), (5, 6)$ and $(5, -2)$
 - (ii) $(1, -1), (-4, 6)$ and $(-3, -5)$
 - (iii) $(-10, -4), (-8, -1)$ and $(-3, -5)$
2. Find the Area of a Quadrilateral whose Vertices are
 - (i) $(8, 6), (5, 11), (-5, 12)$ and $(-4, 3)$
 - (ii) $(-9, -2), (-8, -4), (2, 2)$ and $(1, -3)$
 - (iii) $(-9, 0), (-8, 6), (-1, -2)$ and $(-6, -3)$
3. Show that the points are Collinear:
 - (i) $P(-1.5, 3), Q(6, -2), R(-3, 4)$
 - (ii) $(a, b+c), (b, c+a)$ and $(c, a+b)$
 - (iii) $(-2, 5), (6, -1)$ and $(2, 2)$
4. if the area of the triangle formed by the Vertices $A(-1, 2), B(k, -2)$ and $C(7, 4)$ is 22 Sq.units. Find "k".
5. Find the Value of k , if the area of a Quadrilateral is 28 Sq.units, whose Vertices are $(-4, -2), (-3, k), (3, -2)$ and $(2, 3)$.
6. Find the Value of "a", the given points are Collinear.
 - (i) $(2, 3), (4, a)$ and $(6, -3)$
 - (ii) $(3, -1), (a, 3)$ and $(1, -3)$
7. A line makes positive intercepts on Coordinate axes whose Sum is 7. and it passes through $(-3, 8)$. Find its Equation.
8. Find the Equation of a Straight line passing through $(1, -4)$ and has intercepts are in the ratio 2:5.
9. Show that the points form a right angled triangle
 - (i) $(1, -4), (2, -3)$ and $(4, -7)$
 - (ii) $A(1, -4), B(2, -3), C(4, -7)$
 - (iii) $L(0, 5), M(9, 12)$ and $(3, 14)$

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10. Find the equation of a line passes through $(5, 7)$ and makes intercepts on the axes equal in magnitude but opposite in sign.

Practice problems:-

Page No: 206 : Example : 5.5 (X)
 : 207 : Example : 5.7
 : 209 : Exercise : 5.1 (9) (10)

2 marks:-

- (i) what is the slope of a line whose inclination 30° ?
 (ii) what is the inclination of a line whose slope $\sqrt{3}$?
- Find the slope of the given points:
 (i) $(-6, 1)$ and $(-3, 2)$ (ii) $(14, 10)$ and $(14, -6)$
- Let $A(1, -2)$, $B(6, -2)$, $C(5, 1)$ and $D(2, 1)$, Find the slope of (i) AB (ii) CD (iii) BC (iv) AD.
- Find the equation of a straight line whose slope is 5 and intercept is -9.
- Find the equation of the line passing through the point $(3, -4)$ and having slope $-\frac{5}{7}$.
- Find the slope of straight line $6x + 8y + 7 = 0$
- Find the slope of (i) $3x - 7y = 11$
 (ii) $2x - 3y + 8 = 0$.
- Show that $2x + 3y - 8 = 0$ & $4x + 6y + 18 = 0$ parallel.
- Show that $x - 2y + 3 = 0$ & $6x + 3y + 8 = 0$ perpendicular.
- Find the equation of a straight line which is parallel to the line $3x - 7y = 12$ passing through the point $(6, 4)$.

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