





MATHS

BOOKS - CENGAGE

EQUATION OF A STRAIGHT LINE - I

Worked Examples

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1. What is the inclination of the line whose slopes are as follows:



2. What is the inclination of the line whose slopes are as follows:

 $\sqrt{3}$

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3. The line joining A(-6, -8) and B(4, -2)

is parallel to the line joining

C(2, -4) and D(0, p). Find p.

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4. Find the value of a if A(2, 3), B(-5, -0), and $\left(-2, \frac{a}{7}\right)$ are collinear.

A = (5, 2), B = (-9, -3), and C = (-3, -5)

are the vertices of a triangle ABC, find the slope of

the altitude from C to AB.

5.





7. In the diagram, find the inclination of the line OB and also find the slope of the straight lines OA and OB.





8. Find the inclination of AC and the slope of AC and intercepts on the x-axis and y-axis by the line AC.



Also, find the slope of AB and the y-intercept made

by the line AB.

9. Let the equation of a line be 4x - 5y + 2 = 0.

If the points $(\alpha, 3)$ lie on the line, find α .

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10. The equation of a line is 3(x - y) + 4 = 0. Find its slop, inclination, and intercept on the y-axis.

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11. Find the equation of a line passing through (1, -4) and cutting of intercepts, equal but of opposite sign, from the two axes.

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