



MATHS

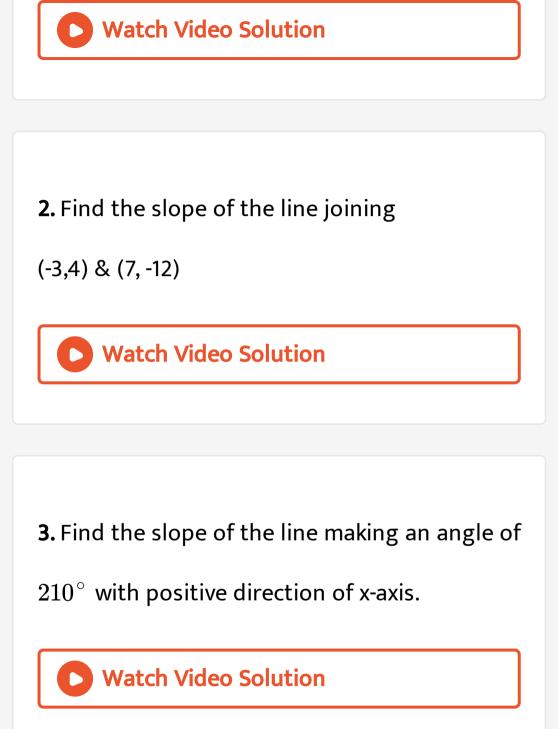
BOOKS - JEEVITH PUBLICATIONS MATHS (KANNADA ENGLISH)

STRAIGHT LINES

One Marks Questions With Answers

1. Find the slope of the line joining

(2,3) & (4,6)



4. Prove that AB||CD if A = (-1,-2), B = (0, 1), C = (3,

0), D = (2, -3)



5. Prove that $AB \perp CD$ if A = (2, 1), B = (0, -1),

C= (-1, 8), D = (4, 3)

6. Find λ if the line joining (1, 5) and (2, λ) is

parallel to x axis.

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7. Prove that the following points are collinear

(using the slope concept)

$$A=(3,\ -4), B=(\,-7,6), C=(\,-2,1)$$

8. Find the equation of the line passing through (4, 5) & having slope 3.

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9. Find the equation of the line passing through (2, 3) & (4, -5)

10. Find the equation of line having y-intercept $rac{3}{4}$ and making an angle of 135° with positive

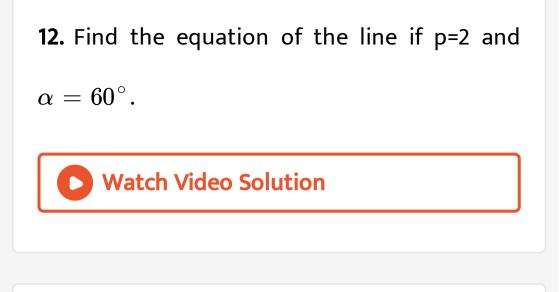
direction of x-axis.



11. Find the equation of the line which cuts off

intercepts 7 and -4 on x and y-axes

respectively.



13. Convert 2x + 3y - 5 = 0 to slope

intercept form

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14. Find the slope of the line 3x - 4y + 1 = 0.





Two Marks Questions With Answers

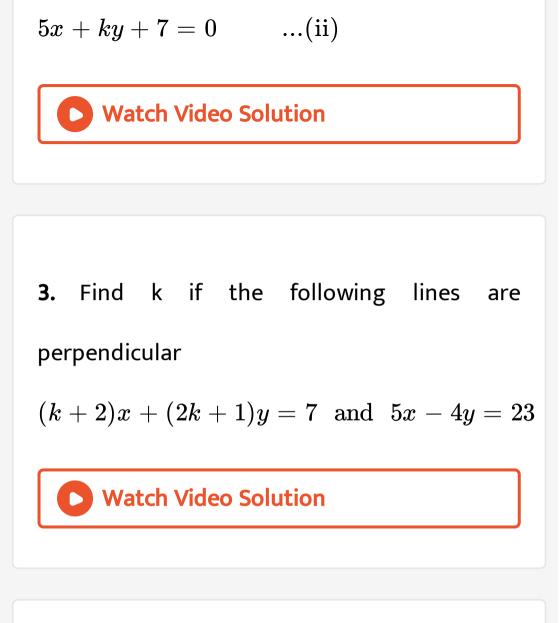
1. Find the equation of the median through vertex A of $\triangle ABC$ if

 $A = (1,2), B = (\,-3,4), C = (\,-1,6)$

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2. Find k if the following lines are parallel

3x - 4y + 1 = 0 ...(i)



4. Find the equation of line passing through

(4, 2) and parallel to the line

$$5x - 7y + 11 = 0$$

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5. Find the equation of the line passing through (4, 5) perpendicular to the line 3x + 7y - 2 = 0.

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6. Find the equation of the passing through (2,

3) and cutting off equal intercepts on co-

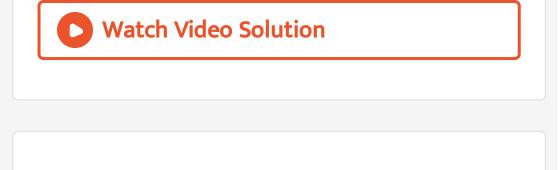


7. Find the equation of the line such that the portion of the line intercepted between the axes is bisected at (3, -2).

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8. Find the acute angle between :-

 $5x + 6y - 1 = 0, \quad x - 11y + 8 = 0$



9. Findt the point of intersection of following

lines :-

x-2y+3=0 ...(1)

3x + 2y + 5 = 0 ...(2)

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10. Prove that the following lines are concurrent also find the point of concurrency.

3x - 4y + 5 = 0(1) 7x - 8y + 5 = 0(2) 4x + 5y = 45(3)

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11. Find k so that the following lines are concurrent

 $3x + y = 2 \qquad \dots (1)$

kx + 2y = 5 ...(2)

2x - y = 3 ...(3)

12. Find the orthocentre of the triangle whose vertices are given by (5, -2), (-1, 2), (1, 4)

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13. Prove that the points (2, -5) & (-2, 4) lie on

the same side of the line 3x + y + 5 = 0.

14. Prove that the points (2, -3) & (-3, 7) lie on the opposite sides of the line 2x + 5y - 8 = 0.



15. Find the length of the $\perp r$ drawn from the

point (2, 3) on the line 3x + 5y - 2 = 0.

16. Prove that the points (2, -5) & (-1, 4) are

equidistant from the line 3x + y - 5 = 0.

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17. Find the distance between the following parallel lines

 $3x+4y+2=0 \quad (ax+by+c_1=0)$

3x + 4y - 7 = 0 $(ax + by + c_2 = 0)$

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Find the ratio in which the line joining (-3, -2)
(-1, 4) is divided by the line joining (-4, 1) & (1,
2).

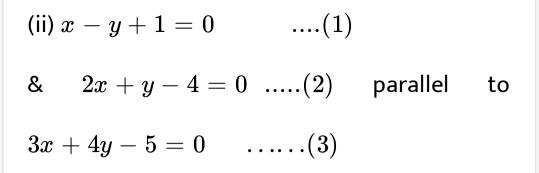
2. Find the equation of line passing through (2, -3) & making 45° with the line 5x + 6y - 2 = 0.

3. Find the equation of line passing through the point of intersection of the lines :-(i) 2x + 3y - 7 = 0(1) & 5x + 2y + 10 = 0(2) & through the

point (2, -3).

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4. Find the equation of line passing through the point of intersection of the lines :-



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5. Find the co-ordinates of the foot of the perpendicular drawn from the point (2, 3) on the line x+y-9=0.



6. Find the image (or reflection) of the point

(2, 1) on the line x + y - 5 = 0.