CLASS 11 ACADEMIC PROGRAM-2020

HIGHER MATH 1ST PAPER

Lecture : HM-09 Chapter 3 : Straight lines

একাডেমিক এন্ড এন্ডমিশন বেল্লাব

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POLL QUESTION-01

□ The intersecting point of the lines 2x + 2y - 6 = 0 and 3x - y - 5 = 0 is-

substitution 3x - y - 5 = 0(a) (2, 2) (b) (2,1) 2x + 2y - 6 = 0 (2x + 6x - 10 - 6 = 0(c) (-2, 13) 、スニ J=6-5 (d) (-2,3)782-16=0 12=2

ঠি হিন্দ্রাম একাডেমিক এড এর্ডমিপন কেয়ার







CONDITIONS FOR PARALLEL OR PERPENDICULAR LINES



PRACTICE PROBLEM

(i). 5x + 4y - 1 = 0 and 2x + ky - 7 = 0 are parallel. Find the value of k.

(ii). The line connecting P(x, y), C(1, 2) is perpendicular to the line connecting A (-7, 3), B(1, -5) ; Show that, x - y + 1 = 0



EQUATION OF LINE UNDER VARIOUS CONDITIONS















MATHEMATICAL PROBLEM



EMATICAL PROBLEM Jent K (mdew) Find the equation of line which passes through the intersecting points of ** 3x - 7y + 5 = 0 and x - 2y - 7 = 0 and cuts parts of same signed equal value from the axes. secting Q Higher Math 1st Paper Chapter 3 : Straight Lines

POLL QUESTION-04



PRACTICE PROBLEM

(i) Find the equation of line which passes through the intersecting points of

 $x - y - 4 = 0 \circ 7x + y + 20 = 0$ and also passes through the origin.

- (ii) Two lines passes through the point (3, 4) And they create an angle of 60° with the line x y + 4 = 0; Find the equations of the lines.
- (iii) Find the equation of line passing through the intersecting points of 4x + 3y 6 = 0 and x 2y 7 = 0 which is also parallel to x axis.
- (iv) For any value of k, the line (2k-3)x + (3k-2)y (4k-1) = 0 passes through a certain point; Find the co-ordinate of that point.
- (v) What's the intersecting point of the perpendicular line drawn from the point (3, 1) on the line 2x + y 3 = 0?



