

### pair of straight lines pdf

CHAPTER 4 PAIR OF STRAIGHT LINES TOPICS: 1. Equation of a pair of lines passing through the origin 2. Angle between pair of lines 3. Bisectors of the angles between two lines. 4. pair of bisectors of angles between the pair of lines. 5. Equation of pair of lines passing through given point and parallel/perpendicular to the given pair of lines.

### CHAPTER 4 PAIR OF STRAIGHT LINES - Sakshi Education

Hence, two straight lines, represented by one equation, are at right angles if the algebraic sum of the coefficients of  $x^2$  and  $y^2$  be zero. For example, the equations  $x^2 + y^2 = 0$  and  $6x^2 + 11xy + 6y^2 = 0$  both represent pair of straight lines at right angles. 2. If  $h^2 = ab$ , the value of  $\tan \hat{I}_1$  is zero and hence  $\hat{I}_1$  is zero.

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The equation to the pair of lines through (D, E) and perpendicular to the pair of lines  $ax^2 + 2hxy + by^2 = 0$  is  $b(x - D)^2 - 2h(x - D)(y - E) + a(y - E)^2 = 0$ . 10. The equation to pair of lines through the origin and forming an equilateral triangle with the line  $ax + by + c = 0$  is given by  $(ax + by)^2 - 3(ay - bx)^2 = 0$ . 11.

### Pairs of Straight Line

Hence the angular bisectors form a perpendicular pair. the bisectors are  $ax^2 + 2hxy + by^2 = 0$ . 40: 40: Show that the pair of bisectors of the angle between the straight lines  $ax^2 + 2hxy + by^2 = 0$  are parallel and perpendicular to the line  $ax + by + c = 0$ . E. A. W. the bisectors of the first pair are the same as the bisectors of the second pair. 42 E. then the bisectors are (3 ...

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19. The line  $ax + by + c = 0$  and the pair of lines  $(ax + by)^2 - 3(bx - ay)^2 = 0$  form an equilateral triangle and its area is  $3(a^2 + b^2) |c|^2 / 2 + \text{sq. unit}$ . 20. The equation to the pair of lines passing through the origin and forming an equilateral triangle with the line  $ax + by + c = 0$  is  $(ax + by)^2 - 3(bx - ay)^2 = 0$ . 21.

### 5. PAIR OF STRAIGHT LINES - sakshieducation.com

Co-ordinate Geometry THE EQUATION OF STRAIGHT LINES This section refers to the properties of straight lines and curves using rules found by the use of cartesian co-ordinates.

### Co-ordinate Geometry THE EQUATION OF STRAIGHT LINES

04 Pair of Straight Lines ` Target Publications Pvt. Ltd. Std. XII : Triumph Maths 2 7. Equation of bisectors of angle between the lines represented by  $px^2 + 2rxy + qy^2 = 0$  is  $22 pq \dots$

### 04 Pair of straight line - targetpublications.org

MATHEMATICS Notes MODULE - II Coordinate Geometry 342 Straight lines 10.2 DERIVATION OF THE EQUATION OF STRAIGHT LINE IN VARIOUS STANDARD FORMS So far we have studied about the inclination, slope of a line and the lines parallel to the axes.

### STRAIGHT LINES - National Institute of Open Schooling

When two lines are intersected by a transversal, eight angles are formed. These angles can be classified as 4 interior angles, 4 exterior angles, 4 pairs of corresponding angles, 2 pairs of alternate interior angles, 2

pairs of alternate exterior angles and two pairs of interior angles on the same side of the transversal.

### **Unit- 5 Lines and Angles corrected**

This equation must represent a pair of straight lines, real or imaginary, through the origin. These can be written as: Since is the gradient of a line through the origin the roots of this equation must be the gradients of the lines and .

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