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Paper – 4 (Pair of Straight Line)

	I wo fines represented by equation	$11 \times 1 $			
	(a) Coincident	(b) Parallel	(c) Mutually perpendicular	(d) Imaginary	
2.	The equation of pair of straight li	he equation of pair of straight lines perpendicular to the pair $ax^2 + 2hxy + by^2 = 0$ is			
	$(a) ax^2 - 2hxy + by^2 = 0$	(b) $bx^2 + 2hxy + ay^2 = 0$	$(c ay^2 - 2hxy + bx^2 = 0$	$(d) ay^2 - bx^2 = 0$	
3.	The values of h for which the equ	nation $3x^2 + 2hxy - 3y^2 - 40x + 3$	0y - 75 = 0 represents a pair of straig	ght lines, are	
	(a) 4, 4	(b) 4, 6	(c) $4, -4$	(d) 0, 4	
4.	The equation $(x-5)^2 + (x-5)(y-6) - 2(y-6)^2 = 0$ represents				
	(a) A circle		(b) Two straight lines passing thr	ough origin	
	(c) Two straight lines passing the		(d) None of these		
5.		ous equation in x and y alway	•//		
	(a) A pair of straight lines	(b) A circle	(c)A conic section	(d)None of these	
6.	If $6x^2 + 11xy - 10y^2 + x + 31y$	+k = 0 represents a pair of st	raight lines, then $k =$		
	(a) - 15 (b) 6	(c) -10	(d) - 4	
7.	If $4ab = 3h^2$, then the ratio	of slopes of the lines represe	nted by the equation $ax^2 + 2hxy$	$+by^2 = 0$ will be	
	(a) $\sqrt{2}:1$	b) $\sqrt{3}:1$	(c) 2:1	(d) 1:3	
8.	If the equation $ax^2 + 2hxy + a$	$by^2 = 0$ represents two lines	$y = m_1 x$ and $y = m_2 x$, then		
	(a) $m_1 + m_2 = \frac{-2h}{h}$ and $m_1 m_2$	$a = \frac{a}{a}$	(b) $m_1 + m_2 = \frac{2h}{b}$ and $m_1 m_2 = \frac{2h}{b}$	$=\frac{-a}{a}$	
	b	² b	b 111112	b	
	(c) $m_1 + m_2 = \frac{2h}{b}$ and $m_1 m_2 = \frac{2h}{b}$	$=\frac{a}{b}$	(d) $m_1 + m_2 = \frac{2h}{b}$ and $m_1 m_2 = -\frac{2h}{b}$	–ab	
9. The nature of straight lines represented by the e		represented by the equation	$4x^2 + 12xy + 9y^2 = 0$ is		
	(a) Real and coincident		(b) Real and different		
	(c) Imaginary and different	t e	(d) None of the above		
10.	The equation of the perpendiculars drawn from the origin to the lines represented by the equation				
	$2x^2 - 10xy + 12y^2 + 5x - 16y -$	3 = 0 is	- V A MA		
	(a) $6x^2 + 5xy + y^2 = 0$		(b) $6y^2 + 5xy + x^2 = 0$		
	(c) $6x^2 - 5xy + y^2 = 0$		(d) None of these		

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Answer Key will be available in next paper.

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Answer Key Paper 3 (Straight Line)

 01.B
 02.A
 03.D
 04.C
 05.B

 06.D
 07.C
 08.D
 09.C
 10.A

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