

FA Part 2 Mathematics Chapter 4 Test Online

Sr	Questions	Answers Choice
1	The distance between two points P ₁ (x ₁ , y ₁) and P ₂ (x ₂ , y ₂) on the co-ordinate plane is given by:	
2	Joint equation of $y + 2x = 0$, $y - 3x = 0$ is:	A. $(y+2x)(y-3x) = 0$ B. $(y-2x)(y-3x) = 0$ C. $(y+2x)(y+3x) = 0$ D. $(y-2x)(y+3x) = 0$
3	Question Image	
4	X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:	A. -1 B. 1 C. 3 D. -3
5	For any point (x, y) and y - axis:	A. $y = 0$ B. $y = -1$ C. $y = 1$ D. $x = 0$
6	A linear equation in two variables represents:	A. Circle B. Ellipse C. Hyberbola D. Straight line
7	If in the case of translation of axes, O (-3, 2), (x, y) = (-6, 9) then (X, Y) =	A. (-3, 9) B. (-3, 7) C. (-9, 11) D. (3, 7)
8	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are othogonal, if:	A. $a - b = 0$ B. $a + b = 0$ C. $a + b > 0$ D. $a - b < 0$
9	If the lien l is parallel to y-axis, then the slope of l is -----.	A. 0 B. 1 C. -1 D. undefined
10	$y - y_1 = m (x - x_1)$ is the equation of straight line in:	A. Slope-intercept form B. Point-slope form C. Normal form D. Intercepts form
11	The point of intersection of the medians of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
12	The ratio in which y-axis divides the line joining (2, -3) and (-5, 6) is:	A. 2 : 3 B. 2 : 5 C. 1 : 2 D. 3 : 5
13	General form of equation of line is:	A. $ax - by + c = 0$ B. $ax + by - c = 0$ C. $ax + by + c = 0$ D. $ax - by - c = 0$
14	Equation of the line parallel to $x + 3y - 9 = 0$ is:	A. $3x - y - 9 = 0$ B. $3x + 9y + 7 = 0$ C. $2x - 6y - 18 = 0$ D. $x - 3y + 9 = 0$
15	The point of intersection of internal bisectors of the angles of a triangle is called:	A. Centroid B. Ortho-centers C. Circums-center D. In-center
16	If a straight line is perpendicular to x-axis, then its slope is:	A. 0 B. 1 C. 2 D. Undefined

17	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
18	If the inclination of the line l lies between $]0^\circ, 90^\circ[$, then the slope of l is:	A. Positive B. Negative C. Undefined D. None of these
19	The distance between the points (1, 2), (2, 1).	A. 1 D. 2
20	The ratio in which the line segments joining (2, 3) and (4, 1) is divided by the line joining (1, 3) and (4, 3) is:	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 1