

Question 1: Choose the correct answer ,write your answer in the table below (10 Marks)

1. The value of $\frac{2x+1}{y}$ when $x = 3$ and $y = 7$ is:

- a) 1 b) $\frac{6}{7}$ c) $\frac{3}{7}$ d) 2
-

2. The reciprocal of $\frac{2}{3}$ is :

- a) $-\frac{2}{3}$ b) $\frac{3}{2}$ c) 3 d) -2
-

3. The first coordinate is positive and Second coordinate is negative in quadrant:

- a) I b) II c) III d) IV
-

4. The degree of a polynomial $9x^3 - 10x^5 + 4x + 7x^2 + 10$ is :

- a) 5 b) 3 c) 2 d) 1
-

5. The simplification of $(2x^2y)^2$ is:

- a) $2x^4y^2$ b) $2x^2y$ c) $4x^2y^2$ d) $4x^4y^2$
-

6. The GCF of $3y^2$, $-5y^4$ is:

- a) $3y^2$ b) y^2 c) $5y^4$ d) y^4
-

7. The slope for the horizontal line is:

- a) 1 b) undefined c) 0 d) $\frac{1}{2}$
-

8. The simplification of $-|-8|$ is:

- a) -8 b) 8 c) 0 d) $|-8|$
-

9. The translate 8 less than y is:
 a) $8+y$ b) $y*8$ c) $8\div y$ d) $y-8$

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10. The slope of the line containing the point (2, 1) and (-4, 3) is:
 a) $-\frac{1}{3}$ b) -3 c) 6 d) 1

Question	1	2	3	4	5	6	7	8	9	10
Answer										

Question 2 : Perform and simplify the following (3 Marks)

1) $8 - 2 * 3 + 9 =$

2) $3a + 2b - (4a + 7b - 8) =$

3) $\frac{24x^4 - 4x^3 + 2x^2 - 16x}{2x} =$

Question 3 : (2 Marks)

❖ **convert to scientific notation:**

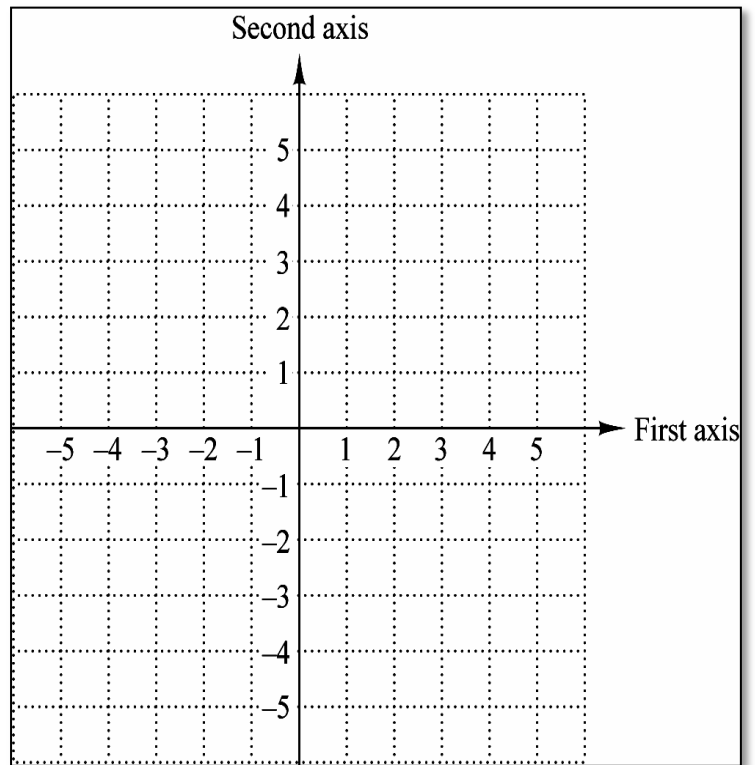
$2340000000000 = \dots\dots\dots$

❖ **convert to decimal notation:**

$5 \times 10^{-4} = \dots\dots\dots$

Question 4 : (3 Marks)

Find the x- intercept and y- intercept of the $y = x + 5$, Then graph the equation



Question 5 : (2 Marks)

1- Multiply : $(x + 7)(x - 7)$

2- Solve : $x^2 - 8x = -7$