Name: .....
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Date: Sunday 17 / 03 / 20 13
Mid-Term Exam (Second Term)

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Question I / Choose the correct answers and write them in the table below (1 point for each)

1/ The value of $x^0 + 10$, when x = 12, is:

a) 22 b) 10 c) 11 d) 21

2/ The solution of $-6 + x = 17$ is:

a) x= 11 b) x= -11 c) x= 23 d) x= -23

3/ " is" translates to:

a) "=" b) " x 0.01" c) any letter d) " x "

4/ The scientific notation of 0.000000405 is:

a) 40.5×10^7 b) 4.05×10^7 c) 4.05×10^{-7} d) 4.05×10^{-8}

5/ An ordered pair solution of the equation $2x + y = -1$ is:

a) (-1, 1) b) (1, 1) c) (-1, -1) d) (1, -1)

6/ In which quadrant, the point (6, −3) is located?

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

7/ The expression of $(-5x^4y^{-3})$, using positive exponents, is:

a) $(-5x^4y^3)$ b) 13 $(5x^4y^3)$ c) $(-5\frac{x^4}{x^3})$ d) $(5\frac{x^4}{x^3})$

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8/ "x is at least 5" means:

a) $x < 5$ b) $x \leq 5$ c) $x > 5$ d) $x \geq 5$

9/ The GCF of ($35x^3$, $7x^5$, $21x^2$)

a) $7x^3$ b) $21x$ c) $7x^2$ d) $35x^2$

10/ Which of the following expressions is a difference of squares ?

a) $x^2 + 16$ b) $x^2 + 100$ c) $4x^2 - 10y^2$ d) $9x^2 - 16y^2$

11/ The LCM of ($12x^4$, $27x^7$) is:

a) $108x^7$ b) $108x^4$ c) $108x^{11}$ d) $108x^3$

12/ The graph of $y = b$ is:

a) An horizontal line b) a vertical line c) an x-intercept d) a y-intercept

Question	1	2	3	4	5	6	7	8	9	10	11	12
Answer	C	C	A	C	A	C	C	D	C	D	A	A

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Question 2/ Collect like terms, then arrange in descending order and write the degree of the polynomial **(2 points)**

$-x-5x^2-8x+14x^2+11x^4-x-3x^4$

$8x^4+9x^2-10x$

Degree : 4

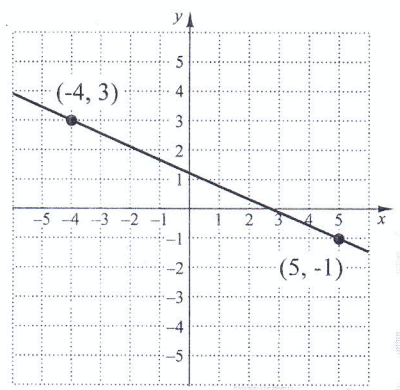
Question 3 / Remove Parentheses and simplify **(1 point)**

$(7+3x+8x^2+9x^3)-(3-9x-8x^2-9x^3)$

$7+3x+8x^2+9x^3-3+9x+8x^2+9x^3$

$18x^3+16x^2+12x+4$

Question 4 / Find the slope **(1 point)**



$m = -\frac{4}{9}$

Question 5/ Determine whether ($x^2 + 10x + 25$) is a trinomial square? then factor it, if it is possible **(2 points)**

$\sqrt{x^2} = x$

$\sqrt{25} = 5$

$2 \cdot 5x = 10x \Rightarrow$ Trinomial Square

$[x+5]^2$

Question 6 / Solve the quadratic equation $3x^2 + 13x - 10 = 0$ **(2 points)**

$(3x-2)(x+5) = 0$

$3x-2 = 0 \longrightarrow x = \frac{2}{3}$

$x+5 = 0 \longrightarrow x = -5$