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DEPARTMENT OF EDUCATION

دائرة التعليم والمعرفة
مكتب العين التعليمي
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Mock Exam 1

Math

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Grade 12- General

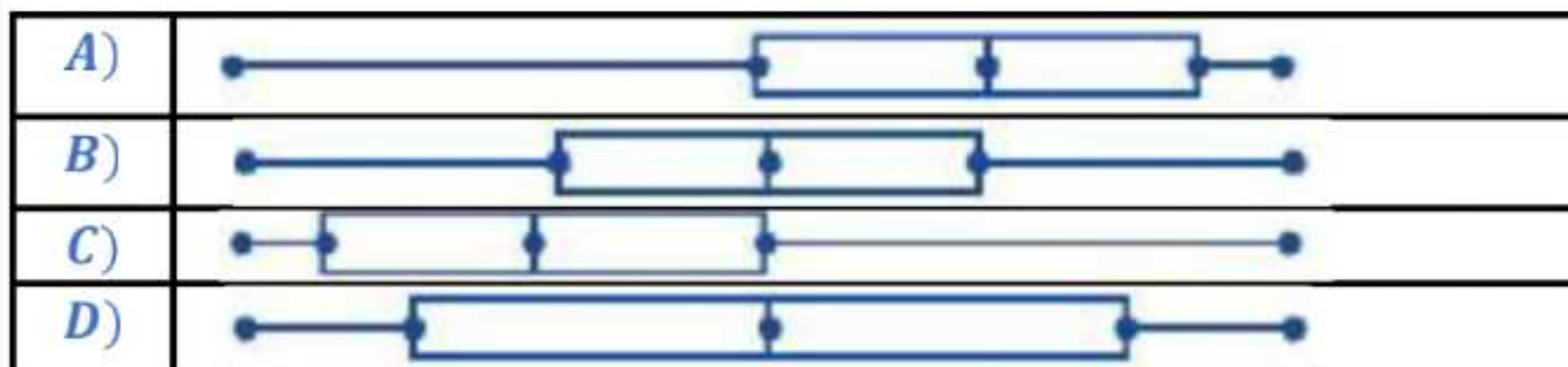
Trimester 3

2019 - 2020

By / Mr. Mohamed Abdelhamid

Circle the correct answer:

1) which of the following Box Plots is skewed to the right?



2) by using the probability distribution of x , then the value of $p(x) \geq 3$

x	0	1	2	3	4	5
$p(x)$	0.06	0.10	0.30	0.40	0.10	0.04

A)	0.14
B)	0.30
C)	0.40
D)	0.54

3) The temperatures are distributed for one of the months in one city in UAE

$$\mu = 81, \quad \sigma = 6$$

find the probability using calculator $P(70 < X < 90)$

A)	0.9332
B)	0.0336
C)	0.8996
D)	0.9668

7) A man is shooting a goal, if he scores it he win 500 AED, if he didn't he loses 100 AED, if you knew that the probability of scoring the goal is 0.75, then what is the value of the man's profit / loss ?

A)	475
B)	400
C)	50
D)	350

8) If $z = -1.75$, $\mu = 65$, $\sigma = 2.5$ find x

A)	66.75
B)	67.5
C)	60.625
D)	69.375

9) Through the following table:

Number of students under study			
Grade 12	Grade 11	Grade 10	
10	12	8	Wear medical glasses
25	24	21	Do not wear medical glasses

A student was randomly chosen, so what is the probability that the student selected will be from grade 11, giving that they wear medical glasses?

A)	0.36
B)	0.3
C)	0.4
D)	0.12

4) if the equation of linear regression is $y = 0.8x + 5$ find y when $x = 10$

A)	1
B)	13
C)	-1
D)	3

5) If the probability of the student scores a goal is $\frac{1}{3}$, then what are the odds of score a goal?

A)	$\frac{1}{2}$
B)	$\frac{1}{3}$
C)	$\frac{2}{3}$
D)	2

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6) A box contains 4 green balls and 6 red balls, find the probability of two green balls are drawn without replacement.

A)	$\frac{2}{15}$
B)	$\frac{4}{25}$
C)	$\frac{4}{15}$
D)	$\frac{9}{25}$

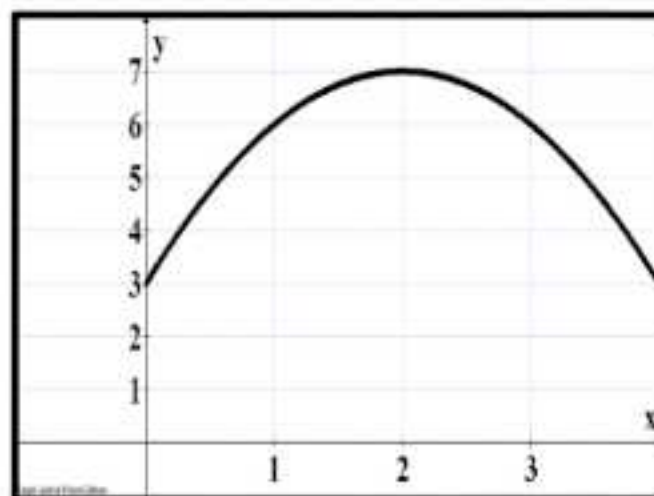
13) If $\lim_{x \rightarrow \infty} \frac{(a-5)x^5 + 6x^3}{2x^3} = 3$ then, the value of a equals:

A)	0
B)	5
C)	3
D)	∞

14) find the slope of the tangent of the function's curve $f(x) = 4\sqrt{x}$ at the point $(1, 4)$ equals:

A)	4
B)	2
C)	-2
D)	1

15) A particle moves according to the function $y = s(t)$ that is shown in the following graph, where $s(t)$ is in meters, then the average velocity of the particle between $t = 2$, $t = 1$

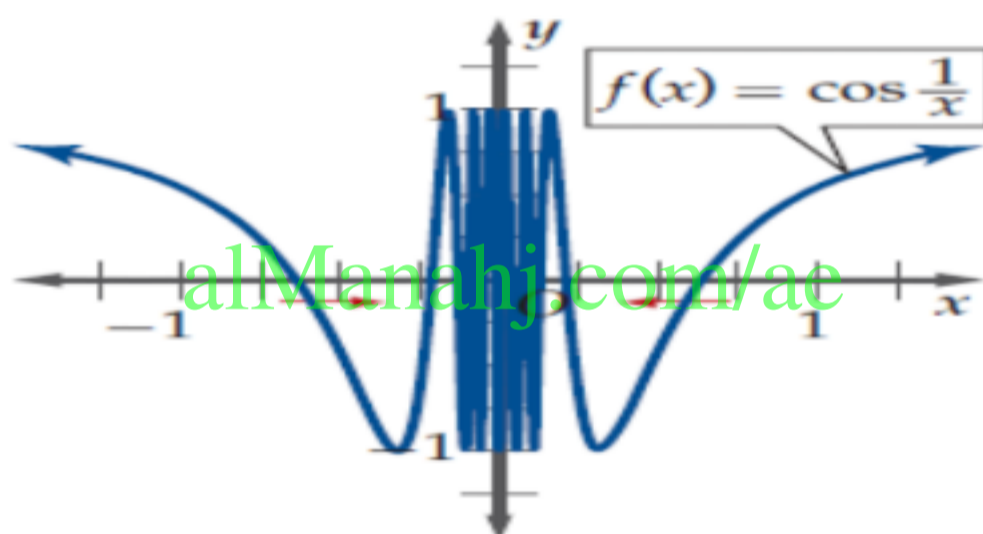


A)	4
B)	1
C)	-1
D)	2

10) 8 out of 10 people with a limited viral infection can recover. A group of 7 people are infected, so what is the probability of 3 people recovering from this infection

A)	0.029
B)	0.115
C)	0.014
D)	0.016

11) In the following graph which $f(x)$ shown, $\lim_{x \rightarrow 0} f(x)$ equals?

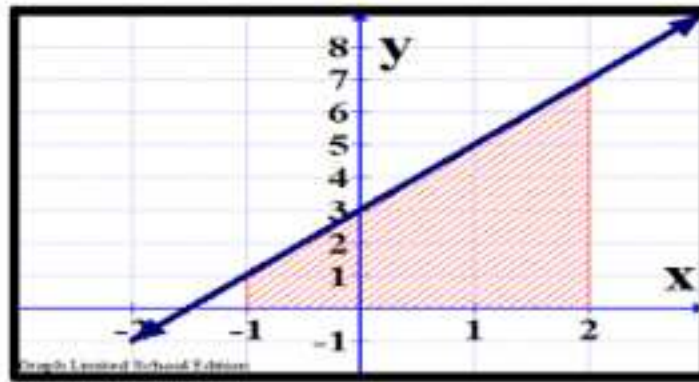


A)	$-\infty$
B)	2
C)	DNE (Does Not Exist)
D)	∞

12) Evaluate $\lim_{x \rightarrow 4} \frac{x^2 - 5x + 4}{x - 4}$

A)	-1
B)	5
C)	3
D)	0

19) Find the area of region between the graph $f(x) = 2x + 3$ and the x-axis on the interval $-1 \leq x \leq 2$



A)	12
B)	10
C)	$\frac{34}{3}$
D)	24

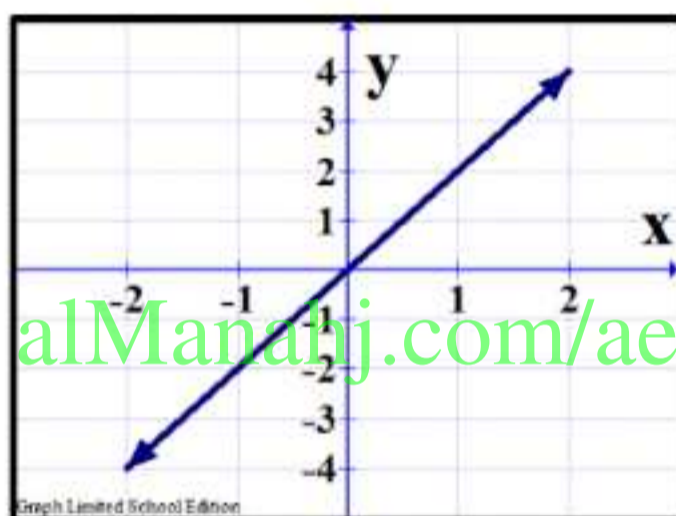
20) Evaluate $\int 2x^{-3}(3x^5 + x^3 - 1)dx$:

A)	$x^3 + 2x^{-5} - \frac{2}{x^2} + C$
B)	$2x^3 + 2x - \frac{1}{x^2} + C$
C)	$2x^3 + 2x + \frac{1}{x^2} + C$
D)	$x^3 + 2x - \frac{2}{x^2} + C$

16) If $f(x) = x^2 + g(x)$ and $g'(1) = 4$, $g(1) = 3$, then $f'(1)$ equals

A)	6
B)	4
C)	5
D)	7

17) The following figure represents the $f(x)$, then the value of $\lim_{n \rightarrow \infty} \sum_{i=1}^n f(x_i) \Delta x$ in the interval $[-1, 1]$ using the graph below



A)	2
B)	4
C)	5
D)	0

18) If $\int_0^1 kx dx = 8$, then k the value of equals

A)	8
B)	16
C)	± 4
D)	4