تم تحميل هذا الملف من موقع المناهج الإماراتية

الملف أوراق عمل مراجعة الوحدة الثانية مع الحل

روابط مواقع التواصل الاجتماعي بحسب الصف الثاني عشر العام

روابط مواد الصف الثاني عشر العام على تلغرام

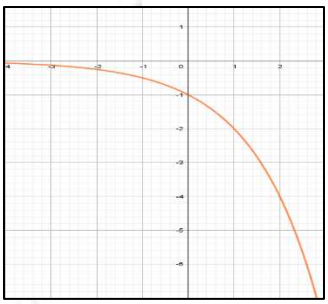
التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات

المزيد من الملفات بحسب الصف الثاني عشر العام والمادة رياضيات في الفصل الأول

1	مراجعة عامة قبل امتحان نهاية الفصل الأول من
2	التوزيع الزمني للفصل الاول
3	الدوال من منظور التفاضل والتكامل
4	اسئلة اختيار متعدد
5	امسات رياضيات

Choose the correct answer in the following questions:

1- The end behavior of $y = f(x) = -2^x$ is:



a- $\lim_{x\to-\infty} f(x) = 0$, $\lim_{x\to\infty} f(x) = -\infty$

b- $\lim_{x\to-\infty} f(x) = \infty$, $\lim_{x\to\infty} f(x) = \infty$

c. $\lim_{x\to-\infty} f(x) = 1$, $\lim_{x\to\infty} f(x) = -\infty$

d- $\lim_{x\to-\infty} f(x) = 0$, $\lim_{x\to\infty} f(x) = \infty$

2 - Use the graph of $f(x) = 2^x$ to describe the transformation that result in the graph of $g(x) = -\frac{1}{3}(2^x)$:

a- *Reflected on $y-$ axis then compressed verticaly with factor* $\frac{1}{3}$

b- *Reflected on $x-$ axis then expanded verticaly with factor* 3

c. *Reflected on $x-$ axis then expanded horizontaly with factor* 3

d- *Reflected on $x-$ axis then compressed verticaly with factor* $\frac{1}{3}$

3 - Find the value of an investment A ,if the principal P= 500 AED , the rate = 3% , and the time t=5 years , if the interest is compounded continuously ?

a- 579.637 b- 580.917 c. 590 d- 600

Review Unit 2

3 - Evaluate $\log_2 \frac{1}{16} =$

a- -4 b- 4 c. $\frac{1}{4}$ d- $\frac{-1}{4}$

4- Evaluate $log\ 0.000001 =$

a- -6 b- $\frac{1}{6}$ c. 6 d- $\frac{-1}{6}$

5- Evaluate $5ln\ (e^{-3})$

a- -3 b- 15 c. -8 d- -15

6- Evaluate $ln\ (-e)$

a- $not\ defined$ b- 6 c. 0 d- -6

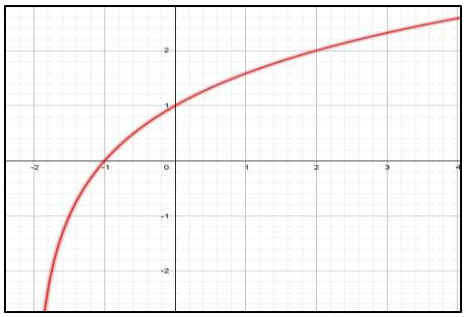
7- Explain how to transform the graph of $f(x) = \log_2 x$ into the graph of the function $g(x) = \log_2 (x + 2)$ which graphed below:

a- The graph of f Shifted 2 units left.

b. The graph of f Shifted 2 units right.

c. The graph of f Shifted 2 units up.

d. The graph of f Shifted 2 units down.



Review Unit 2

8- The domain, range, x-intercept , and vertical asymptotes respectively for $f(x) = \log_7(x+4)$ are :

a- Domain: $(-4, \infty)$, $Range: [0, \infty)$, $x-intercept: -1$, $vertical\ asymptotes$: x = 0 .

b . Domain: $(4, \infty)$, $Range: R, x-intercept: -3$, $vertical\ asymptotes$: x = -4.

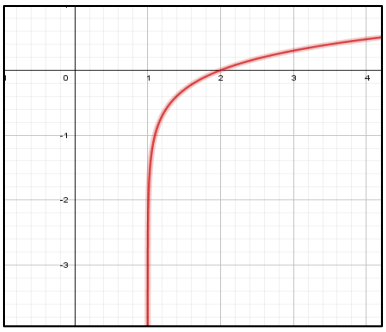
c. Domain: $(-4, \infty)$, $Range: R$, $x-intercept: -3$, $vertical\ asymptotes$: x = -4 .

d- Domain: $(0, \infty)$, $Range: R$, $x-intercept: -3$, $vertical\ asymptotes$: x = -4 .

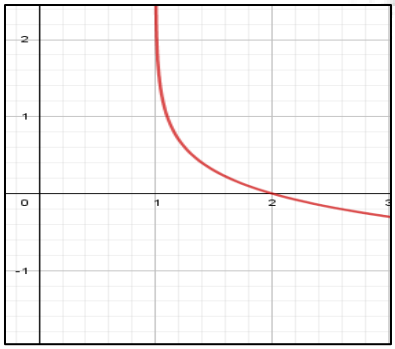
9- Choose the graph of the function f(x) that satisfies the following conditions

$\lim_{x \to 1^+} f(x) = -\infty$, $\lim_{x \to \infty} f(x) = \infty$, $f(2) = 0$

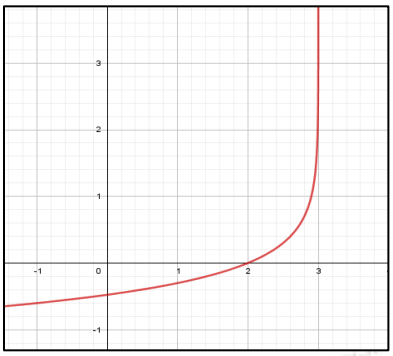
a.



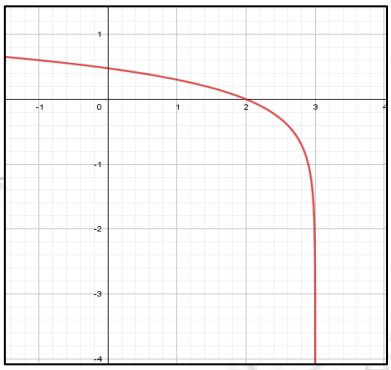
b.



c.



d.



Review Unit 2

10- Express $ln\,0.7$ in term of ln 2 , ln 5 , ln 7 :

a. $ln7 - ln2 - ln\,5$ b. $ln7 - ln2 + ln\,5$

c. $-ln7 + ln2 - ln\,5$ d. $ln7 + ln2 + ln\,5$

11 - **TORNADOES** The distance d in miles that a tornado travels is $d = 10^{\frac{w-65}{93}}$, where w is the wind speed in miles per hour of the tornado. If a tornado travels 100 miles, estimate the wind speed.

a. 121 b. $10^{\frac{35}{93}}$ c. 251 d. 2.379

12 - Evaluate $36\,ln\,e^{0.5} - 4ln\frac{1}{e^{-5}}$:

a. 2 b. -2 c. 32 d. 13

13 - Expand $log\left(\frac{2x^5\sqrt{yz}}{r\sqrt[3]{m}}\right)$

a. $log2 + 5\,logx + 0.5\,logy + 0.5logz - logr - \frac{1}{3}\,logm$

b. $log2 + 5\,logx + 0.5\,logy + 0.5logz - logr + \frac{1}{3}\,logm$

c. $log2 + 5\,logx + 0.5\,logy + logz - logr - \frac{1}{3}\,logm$

d. $log2 + 5\,logx + logy + 0.5logz - logr - \frac{1}{3}\,logm$

Review Unit 2

14- Condense $2logx + 3log(y+1) - 4logx - 0.5logy$

a. $log\frac{x^2(y+1)^3}{x^4\sqrt{y}}$

b. $log\frac{x^2-(y+1)^3}{x^4-\sqrt{y}}$

c. $log\frac{x^2+(y+1)^3}{x^4+\sqrt{y}}$

d. $log\frac{x^4\sqrt{y}}{x^2(y+1)^3}$

15- Expand $log_5\left(\frac{x^7}{\sqrt[3]{x^3+1}}\right)$

a. $7\,log_5 x + \frac{1}{3}log_5(x^3+1)$

b. $7\,log_5 x - log_5 x + \frac{1}{3}\,log_5 1$

c. $7\,log_5 x - \frac{1}{3}log_5(x^3+1)$

d. $7\,log x - \frac{1}{3}log(x^3+1)$

16-Approximate the value of $ln108$ **given that** $\ln 2 \approx 0.7$, $\ln 3 \approx 1.1$

a. 4 b. 2.6 c. 4.7 d. 5.08

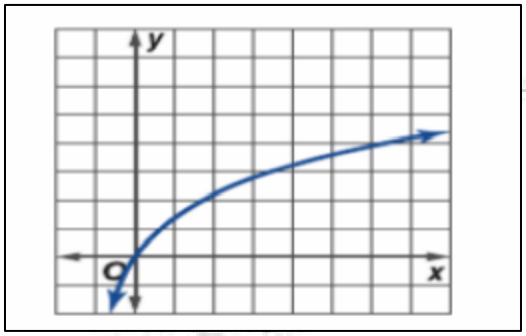
17- Which of the following functions corresponds to the graph below

a. $f(x) = 0.5 \ln(x-2)$

b- $f(x) = \ln 2x - 4 \ln x$

c. $f(x) = 2 \ln(x+1)$

d. $f(x) = \ln(2-x) + 6$



Review Unit 2

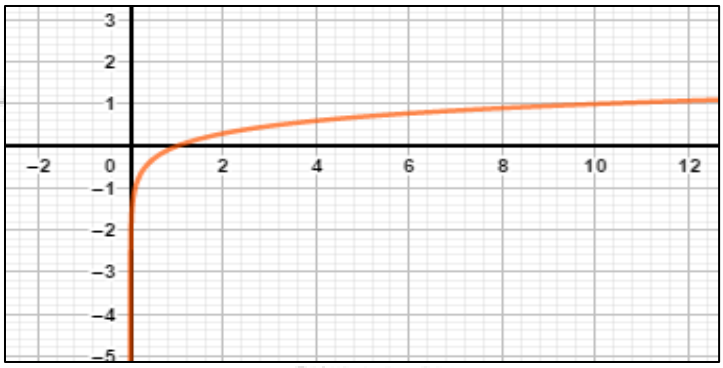
18- Which of the following functions corresponds to the graph below

a. $ln10x$

b- $\frac{1}{ln10}\ ln10x$

c. $\frac{1}{ln10}\ ln(x-1)$

d. $\frac{1}{ln10}\ lnx$



19- Evaluate $e^{log_5\ 5^{lnx}}$:

a. x b. 1 c. $-x$ d. e

20- The solution of $16^{3x+3} = 32^{3x}$ is:

a. $x = 4$ b. x = 1 c. x = 2 d. $x = -4$

21- The number of people P in millions using two different search engines to surf the Internet t weeks after the creation of the search engine can be modeled by $P_1(t) = 1.5^{t+4}$ and $P_2(t) = 2.25^{t-3.5}$, respectively. During which week did the same number of people use each Search engine:

a. 10 b. 9 c. 11 d. 12

22- The solution of $log_5 x = log_5 (x+6) - log_5 4$ is:

a. $x = -3$ b. $x = -2$
c. $x = 3$ d. $x = 2$

23- The solution of $6^{x-2} = 5^{2x+3}$ closest to the nearest hundredth is :

a. $x = -5.89$ b. $x = -5.90$
c. $x = 5.89$ d. $x = -5.90$

24- The solution of $log_2 (2x-6) = 3 + log_2 x$ is:

a. $x = -1$ b. $x = 2$
c. $x = 1$ d. $\emptyset$

25- The solution of $9 < 3^y < 27$ is:

a. $(2, 3)$ b. $[2, 3]$
c. $(9, 27)$ d. $\emptyset$

26- The solution of $16^x + 4^x - 6 = 0$ is:

a. $x = 2$ b. $x = 0.5$
c. $x = -2$ d. $\emptyset$