

Calculator Review

A2CC

ASK:1. Solve for x: $2^{3x} = 4^{x-1}$

- | | |
|-------|-------|
| a. 1 | b. 2 |
| c. -1 | d. -2 |

2. Solve for x: $\log_3 x = 4$

- | | |
|-------|-------|
| a. 16 | b. 27 |
| c. 64 | d. 81 |

3. In the equation $\log_x 4 + \log_x 9 = 2$, x is equal to

- | | |
|----------------|-------|
| a. $\sqrt{13}$ | b. 6 |
| c. 6.5 | d. 18 |

4. Solve for x: $\frac{1}{2} + \frac{5}{x-2} = 3$

- | | |
|-----------|------|
| a. 0 | b. 2 |
| c. $24/7$ | d. 4 |

5. If $\sin^2(27) + \cos^2(A) = 1$, then A =

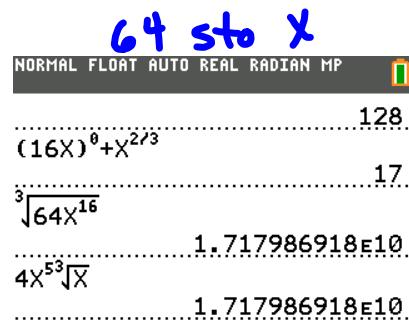
- | | |
|-------|-------|
| a. 63 | b. 27 |
| c. 73 | d. 0 |

STORE:6. If $f(x) = (16x)^0 + x^{2/3}$, find f(64)

- | | |
|-------|---------|
| a. 5 | b. 17 |
| c. 65 | d. 1025 |

7. The expression $\sqrt[3]{64a^{16}}$ is equivalent to

- | | |
|------------------------|----------------------|
| a. $8a^4$ | b. $8a^8$ |
| c. $4a^5\sqrt[3]{a^5}$ | d. $4a\sqrt[3]{a^5}$ |



8. If $f(x) = \frac{x}{x^2 - 16}$, what is the value of $f(-10)$?

a. $-\frac{5}{2}$

b. $-\frac{5}{42}$

c. $\frac{5}{58}$

d. $\frac{5}{18}$

9. A solution to the equation $2x^2 = -10x - 7$ is

a. $\frac{-10 + \sqrt{11}}{2}$

b. $\frac{-5 + \sqrt{11}}{2}$

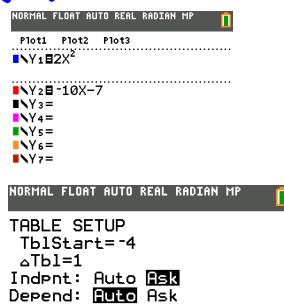
c. $\frac{-5 + \sqrt{39}}{2}$

d. $\frac{-5 + \sqrt{11}}{4}$

$y =$

X	Y ₁	Y ₂
-3.342	22.334	26.417
0.6225	0.775	-13.22
-0.842	1.4169	1.1169
-0.421	0.352	-2.792

or ASK



x = 1 2 3 4 5

10. The formula for the nth term of the sequence 3, -6, 12, -24, ...

a. $a_n = -2(3)^n$

b. $a_n = 3(-2)^n$

c. $a_n = -2(3)^{n-1}$

d. $a_n = 3(-2)^{n-1}$

11. Which summation will not produce $2 + 4 + 6 + 8 + 10 + 12$?

a. $\sum_{b=2}^{12} b$

b. $\sum_{a=1}^6 2a$

c. $\sum_{d=2}^7 (2d-2)$

d. $2 \sum_{c=0}^5 (c+1)$

JUST TYPE IT IN:

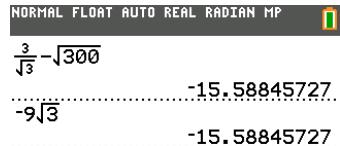
12. Simplify the expression into a single term: $\frac{3}{\sqrt{3}} - \sqrt{300}$

a. $11\sqrt{3}$

b. -10

c. $-9\sqrt{3}$

d. $9\sqrt{3}$



13. Express 1.2π radians in degrees

- a. 76°
- c. 150°

Mode = Deg

- b. 108°
- d. 216°

$(1.2\pi) \uparrow$
2nd Apps

14. Evaluate: $\sum_{k=1}^4 (k+2)^3$

- a. 216
- c. 432

- b. 324
- d. 553

NORMAL FLOAT AUTO REAL DEGREE MP

216

$\sum_{k=1}^4 ((k+2)^3)$

432

15. The expression $9^{\frac{3}{2}} \cdot 27^{\frac{1}{2}}$ is equivalent to

- a. 3^2
- c. 243^2

- b. $3^{\frac{9}{2}}$
- d. $243^{\frac{3}{4}}$

$9^{3/2} * 27^{1/2}$

140.2961154

$3^{9/2}$

140.2961154

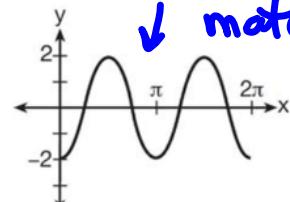
TRIG GRAPHS:

16. Which equation represents the graph at right?

- a. $y = -2\sin 2x$
- c. $y = -2\cos 2x$

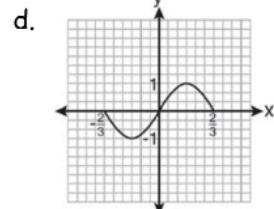
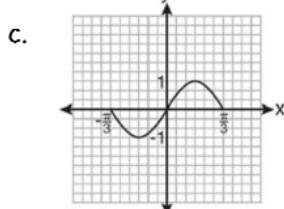
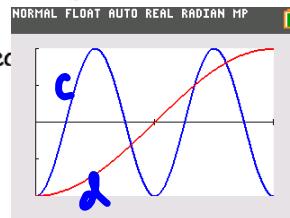
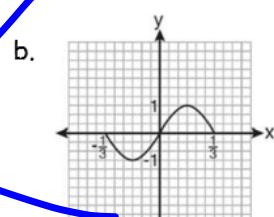
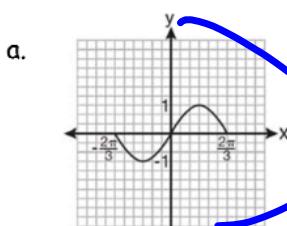
- b. $y = -2\sin \frac{1}{2}x$
- d. $y = -2\cos \frac{1}{2}x$

Radians
COS

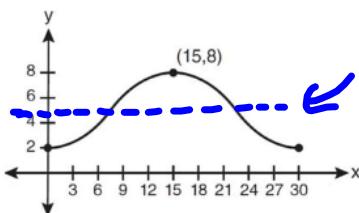


window
match

17. Which graph represents one complete cycle of the graph of the equ



18. Which equation is graphed in the diagram below?



Radian

windows

3 : 0,30

$y = 0,8$

- a. $y = 3\cos\left(\frac{\pi}{30}x\right) + 8$

b. $y = 3\cos\left(\frac{\pi}{15}x\right) + 5$

c. $y = -3\cos\left(\frac{\pi}{30}x\right) + 8$

d. $y = -3\cos\left(\frac{\pi}{15}x\right) + 5$

19. Relative to the graph of $y = 2\cos x$, what is the shift of the graph of $y = 2\cos\left(x - \frac{\pi}{4}\right)$?

- a. $\frac{\pi}{4}$ left b. $\frac{\pi}{4}$ up
c. $\frac{\pi}{4}$ right d. $\frac{\pi}{4}$ down

confirm
by graphing
both

- iPART: ← math num 3: iPart

20. Expressed in simplest form $i^{16} + i^6 - 2i^5 + i^{13}$ is equivalent to

21. Given the complex number $a + bi$, where a is the real part and b is the imaginary part, find the value of a in the simplified form of $(6 - 2i)(3 + 4i)^2$

22. Expressed in $a + bi$ form, $\frac{5}{3+i}$ is equivalent to

- a. $\frac{15}{8} - \frac{5}{8}$

- b. $\frac{5}{3} - 5i$

- c. $\frac{3}{2} - \frac{1}{2}i$

- d. 15 - 5i

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NORMAL FLOAT AUTO REAL RADIAN MP
..... -i
iPart(i16+i6-2i5+i13)
..... -i
(6-2i)(3+4i)2
..... 6+158i
.....  $\frac{5}{3+i}$ 
.....  $\frac{3}{2}-\frac{1}{2}i$ 

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