

Calculus AB

Worksheet

Graphing Calculator

Literacy

Evaluate.

1) $\sqrt[4]{325}$ 4.246

2) $(17)^{3/5}$ 5.474

3) $(2i+1)(2i-1)$ -5

4) $(3 \times 10^5)(5 \times 10^7)$ 1.5×10^{13}

5) Change 0.3275 to a fraction. $\frac{131}{400}$

6) Change 32.77° to degrees, minutes, and seconds. $32^\circ 46' 12''$

7) Recall the computation 5 times ago. answers may vary.

8) Store 13 to letter A. Enter $5A^5 - 17A^3 - Ae$ and press

What do you get? 1819080.622

Now change A to 37 and redo. Answer: 345858583.4

Graph $y = x^3 - 4x^2 + 2x + 4$. Use the calculator to find: $\{-0.732, 2.732\}$

9) y - intercept (0,4) 10) x - intercepts $\{-0.732, 2.732\}$

11) relative max (0.277, 4.268) 12) relative min (2.387, -0.417)

13) Find y when $x = 4$. 12

14) Using y^2 , graph $y = -\frac{2}{3}x - 7$. Where do the two graphs cross?
 $\{-1.219, -6.188\}$

15) Clear the previous graphs. Then graph $y = 10 \sin^2 x$.

$y = 10(\sin x)^2$

16) Clear the previous graph. Then graph $y = 10x^3 - 18x^2 + 132$.

You won't see it...

Find the graph for $-5 \leq x \leq 5$. What size window works best?



17) Return window to normal size when done.

18) Challenge Using a matrix, solve the system:
 $3x + 2y = 7$
 $5x - 9y = -2$ $\{(1.595, 1.108)\}$ or $\{(\frac{59}{37}, \frac{41}{37})\}$

19) Challenge Find the equation of the line of best fit through (0,1) (1,0) (2,1) (3,4).

$y = x^2 - 2x + 1$

20) Type the message : MATH = FUN!

Math PRB
2nd Math