

Monday

Solve $R = \frac{D-T}{3}$ for the variable D .

Solve $A = B + \frac{C}{D}$ for C .

Solve the system by the elimination method.

$$\begin{aligned} 7x + 5y &= -25 \\ 5x + 3y &= -23 \end{aligned}$$

Determine the average rate of change over the interval $-2 \leq x \leq 3$ for the following functions.

$$y = 5x - 1$$

$$y = x^2 - 3x$$

Simplify the expressions:

a. $\left(\frac{1}{3}\right)^{-4}$

b. $(2)^{-5}$

c. $\left(\frac{6}{5}\right)^{-2}$

d. x^{-3}

Evaluate for the given value

$$y = -3(2)^x; x = 2$$

$$g(x) = 2\left(\frac{1}{2}\right)^x; x = -2$$

$$f(x) = 8(0.25)^x; x = 5$$

Tuesday

Complete the table of values.

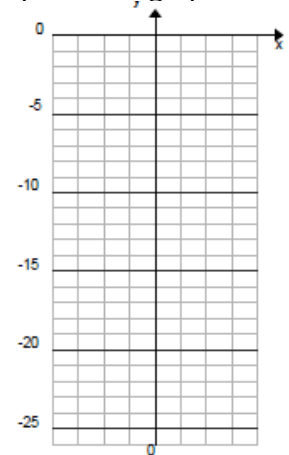
$$f(x) = 2(3)^x$$

x	y
-2	
-1	
0	
1	
2	

Complete the table, then graph on the graph below.

$$f(x) = -\frac{1}{4}(4)^x$$

x	y
-1	
0	
1	
2	
3	



Determine the average rate of change from:

Day 1 to Day 4: _____

Day 0 to day 6: _____

Days (x)	Amount of bacteria ($f(x)$)
0	12
1	19
2	30
3	48
4	76
5	121
6	192

Describe the graph shifts of the following.

a. $y = -3^{x-4} + 7$; from $y = 3^x$

b. $f(x) = \frac{1}{2}(x+7)^3 - 9$
(from the parent function $f(x) = x^3$)

