

Unit 0 HW #8

1. What if the data for Lennie and George (from problem 1) matched the data in each table below? Assuming that the growth of the rabbits multiplies as it did in problem 1, complete each of the following tables. Show your thinking or give a brief explanation of how you know what the missing entries are. [Help](#)

a.

Months	Rabbits
0	4
1	12
2	36
3	
4	

b.

Months	Rabbits
0	6
1	
2	24
3	
4	96

2. For the function $f(x) = \frac{6}{2x-3}$ find the value of each expression below. [Help](#)

a. $f(1)$

b. $f(0)$

c. $f(-3)$

d. $f(1.5)$

e. What value of x would make $f(x) = 4$?

3. Simplify each expression below. Assume that the denominator in part (b) is not equal to zero. [Help](#)

a. $(x^3)(x^{-2})$

b. $\frac{y^5}{y^{-2}}$

c. 4^{-1}

d. $(4x^2)^3$