

7-3 HW – Solving Systems of Equations by Elimination

Solve the system of equations using elimination.

1.
$$\begin{aligned}x + y &= 4 \\x - y &= 8\end{aligned}$$

7.
$$\begin{aligned}3x - 3y &= -6 \\-5x + 6y &= 12\end{aligned}$$

2.
$$\begin{aligned}9x + 6y &= 78 \\3x - 6y &= 18\end{aligned}$$

8.
$$\begin{aligned}4(x + 2y) &= 8 \\4x + 4y &= 12\end{aligned}$$

3.
$$\begin{aligned}x + 4y &= -4 \\x + 10y &= -16\end{aligned}$$

9.
$$\begin{aligned}-4x + 2y &= 0 \\10x + 3y &= 8\end{aligned}$$

4.
$$\begin{aligned}4y + 3x &= 20 \\-3x - 4y &= 8\end{aligned}$$

10.
$$\begin{aligned}3x + 5y &= -58 \\4x + 7y &= -80\end{aligned}$$

5.
$$\begin{aligned}3x - 5y &= 11 \\5(x + y) &= 5\end{aligned}$$

11.
$$\begin{aligned}4x + 3y &= 6 \\3x + 3y &= 7\end{aligned}$$

6.
$$\begin{aligned}x + 10y &= -16 \\x + 4y &= -4\end{aligned}$$

12.
$$\begin{aligned}6x - 9y &= 111 \\5x - 9y &= 103\end{aligned}$$

Review:

For each situation:

- a) Decide if it is linear or exponential
- b) Write an explicit equation

13.

x	$f(x)$
2	12
3	18
4	24

a)

b)

14.

x	$f(x)$
-4	5
-3	20
-2	80

a)

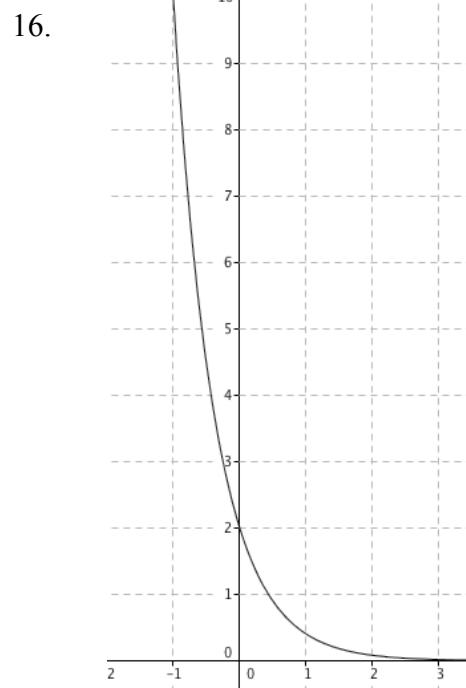
b)

15.

x	$f(x)$
-1	-18
0	-11
1	-4

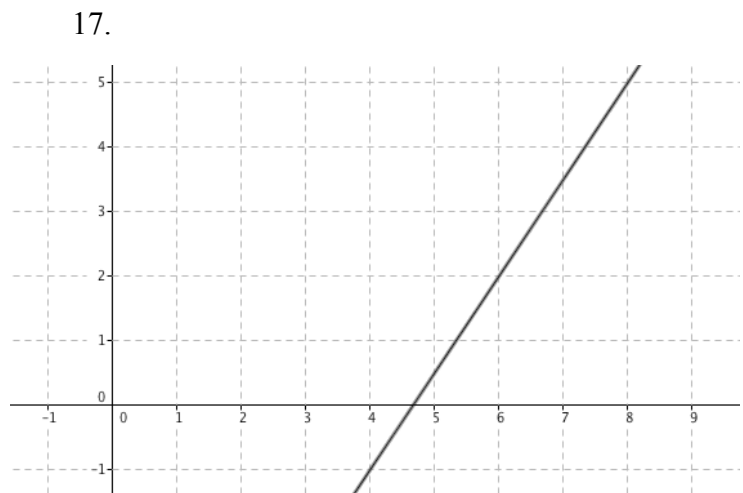
a)

b)



a)

b)



a)

b)