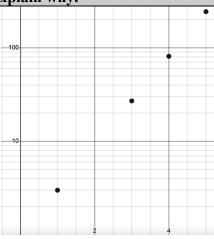
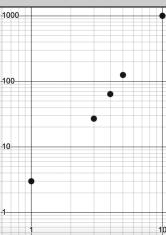
Instructions: Instructions: Tell which graphs represent exponential functions and which do not. Then explain why.

1)



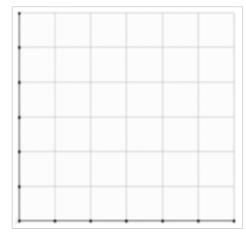
2)



CALCULATOR ACTIVE: Instructions: Answer the questions pertaining to the given data.

3) A) Plot the following data on both graphs below.

X	1	3	4	6	7
Y	3.6	20.74	49.77	286.65	687.97



B) Find a regression equation for the above data.

C) Take the log of both sides and use log rules to create a linear function.

D) Complete the table to find log y.

X	1	3	4	6	7
Y	3.6	20.74	49.77	286.65	687.97
Log y					

E) Find a linear regression equation for $(x, \log y)$.

- 1) Yes, because the semi-log plot shows a linear relationship
- 2) No because the linear relationship is on a log-log plot.
- 3) A) graphs should be able to be done, if you need help, please see your teacher.
 - B) $f(x) = 1.5(2.4^x)$
 - C) $\log y = \log 1.5 + x \cdot \log 2.4$
 - D)

X	1	3	4	6	7
Y	3.6	20.74	49.77	286.65	687.97
Log y	0.56	1.32	1.70	2.46	2.84

E) $\log y = 0.38x + 0.176$