

UNIDAD EDUCATIVA FISCAL ISMAEL PÉREZ PAZMIÑO

Nombre:

Fecha:

Curso:

Docente: Ing. Andrés González T, Mgtr.

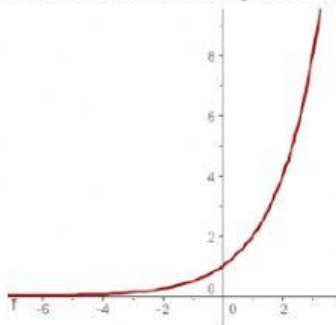
**MATEMÁTICA: FUNCIÓN EXPONENCIAL**

En base al vídeo observado. Realice las actividades propuestas:



1. Seleccione la función que corresponde a la gráfica:

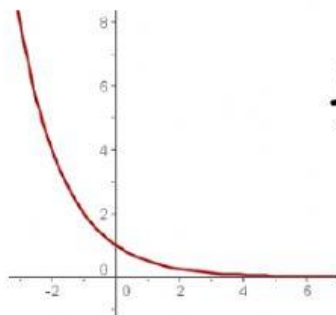
a)



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

$$f(x) = \left(\frac{1}{5}\right)^x$$

b)



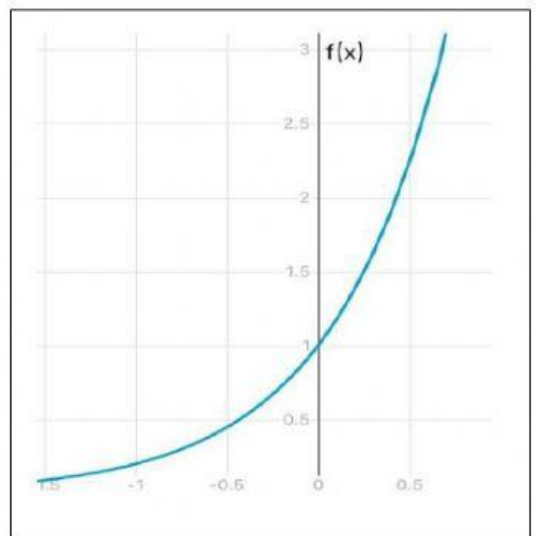
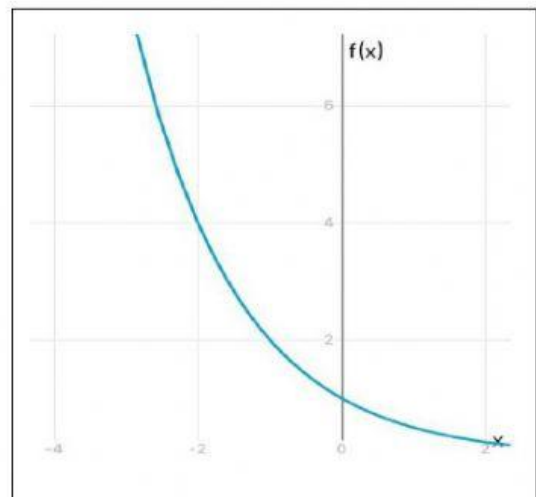
$$f(x) = 2^x$$

$$f(x) = 0,1^x$$

2. Complete la tabla de valores y seleccione la gráfica que corresponde a la función. Las divisiones hasta 3 decimales

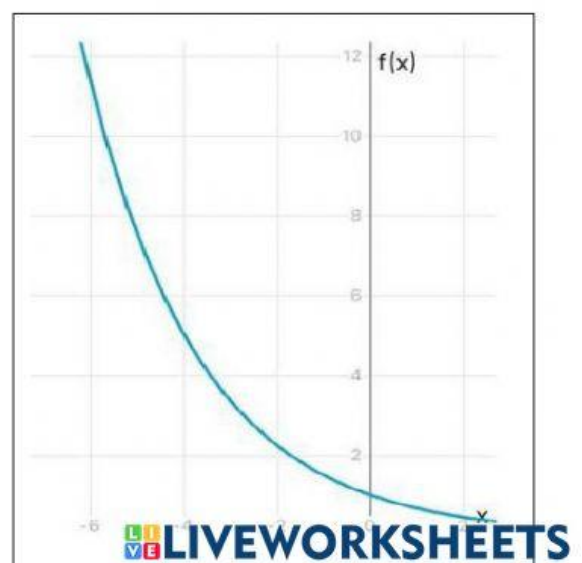
a)  $f(x) = 5^x$

| x  | y                                                                         |
|----|---------------------------------------------------------------------------|
| -3 | $5^{-3} = \left(\frac{1}{5}\right)^3 = \frac{1}{125} = 0,008$             |
| -2 | $5^{-2} = \left(\frac{1}{5}\right)^2 = \frac{\square}{\square} = \square$ |
| -1 | $5^{-1} = \left(\frac{1}{5}\right)^1 = \frac{\square}{\square} = \square$ |
| 0  | $5^0 = 1$                                                                 |
| 1  | $5^1 = \square$                                                           |
| 2  | $5^2 = \square$                                                           |
| 3  | $5^3 = \square$                                                           |



b)  $f(x) = \left(\frac{2}{3}\right)^x$

| x  | y                                                                                                |
|----|--------------------------------------------------------------------------------------------------|
| -3 | $\left(\frac{2}{3}\right)^{-3} = \left(\frac{3}{2}\right)^3 = \frac{27}{8} = 3,375$              |
| -2 | $\left(\frac{2}{3}\right)^{-2} = \left(\frac{3}{2}\right)^2 = \frac{\square}{\square} = \square$ |
| -1 | $\left(\frac{2}{3}\right)^{-1} = \left(\frac{3}{2}\right)^1 = \square$                           |
| 0  | $\left(\frac{2}{3}\right)^0 = \square$                                                           |



|   |                                                             |
|---|-------------------------------------------------------------|
| 1 | $\left(\frac{2}{3}\right)^{\square} = \square$              |
| 2 | $\left(\frac{2}{3}\right)^{\square} = \text{---} = \square$ |
| 3 | $\left(\frac{2}{3}\right)^{\square} = \text{---} = \square$ |

