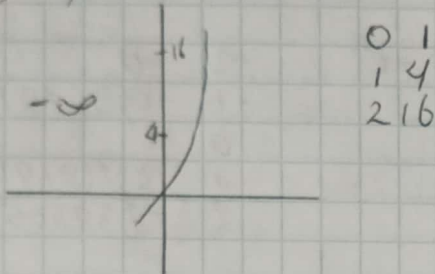


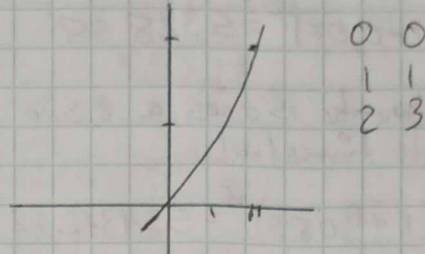
Nombre: Fernando Montoya

Curso: 2do "B"

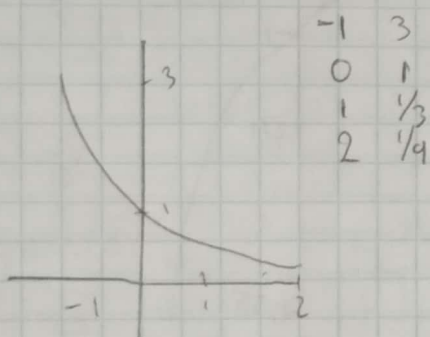
1) $y = f(x) = 4^x$



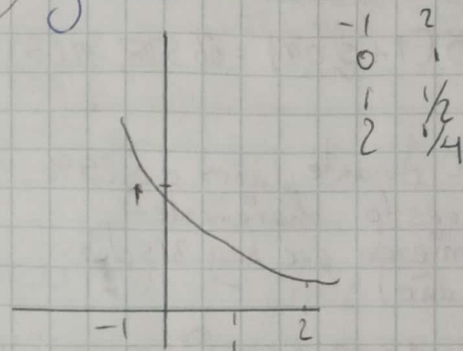
9) $y = f(x) = 2^x - 1$



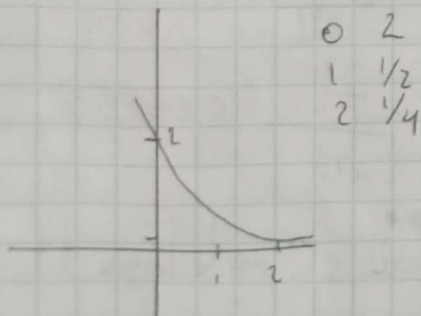
3) $y = f(x) = (1/3)^x$



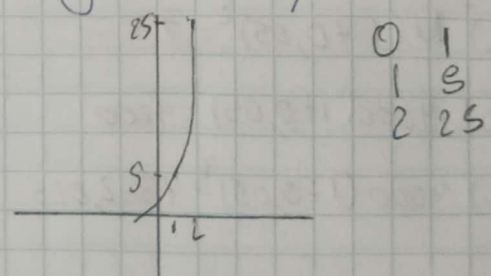
11) $y = f(x) = 2^{-x}$



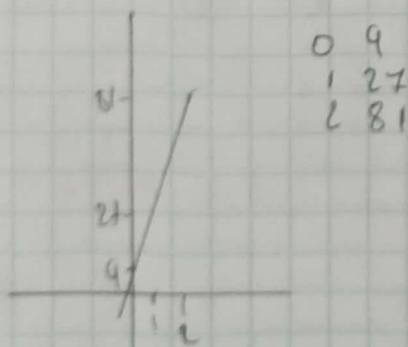
5) $y = f(x) = 2(1/4)^x$



13) De la curva A, B, y C ¿Cuál es la grafica de $y = 5^x$?



7) $y = f(x) = 3^{x+2}$



15) $P = 125000 (1,1)^{n-1}$
 $P = 125000 (1,1)^{n-1}$
 $P = 125000 (1,1)^{n-1}$
 $P = 128750$

14) $P = 1 - \frac{1}{2} (1-c)^{n-1}$, $n \geq 1, 0 < c < 1$
 $P = 1 - \frac{1}{2} (1-c)^{n-1}$
 $P = 1 - \frac{1}{2}$
 $P = \frac{1}{2}$

(19)

$$Total = a^n (1+r)^n$$

$$4000 (1+0,06)^7 = 6014,54$$

(21)

700 durante 15 años a 7% compuesto cada semestre

$$700 (1+0,07)^{30} = 5328,58$$

(23)

4000 durante 15 años a 8,5% compuesto trimestral

$$4000 (1+0,085)^{60} = 534372,124$$

(25)

8000 durante 25 años a 4% compuesto mensualmente

$$8000 (1+0,04)^{30} = 66538,3923$$

(27)

8000 durante 3 años a 6,25% compuesto diariamente (Suponiendo que hay 365 días en un año)

$$8000 (1+0,0625)^{1095} = 5,411 \times 10^{32}$$

(29)

$$1000 (1+0,05)^8 = 1477,46$$

(31)

$$a) N(1+0,05)^2 = T$$

$$b) 4000(1+0,05)^1 = 4200$$

$$c) 4000(1+0,05)^4 = 4862,025$$

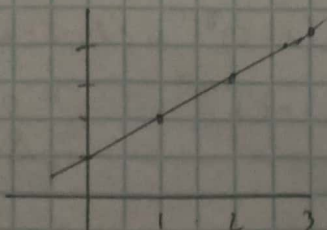
(33)

$$N(1+0,3)^2 = T_1$$

$$N(1+0,3)^1 = T_2$$

$$N(1+0,3) = T_3$$

$$N(1+0,3) = T_4$$



(35)

$$100.000(1+0,01)^3 = 47029,9$$

(37)

$$e^{1,5} = 4,4817$$

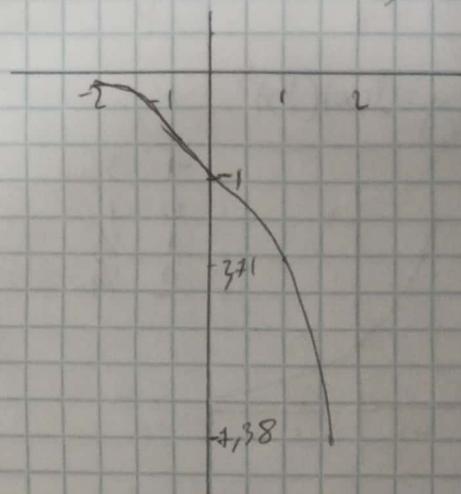
(39)

$$e^{-0,7} = 0,4966$$

(41)

$$y = -e^x$$

-2	-0
-1	-0,36787
0	-1
1	-2,718281
2	-7,38905



(43)

$$P = \frac{e^{-3} 3^x}{x!}$$

$$x = 3$$

$$P = \frac{3^3}{3!} = 8,0655\%$$

(45)

Expresa e^{kt} en la forma b^t

$$b = e^k$$

$$e^{kt} = b^t$$

$$(48) N = 10e^{-0,028t}$$

$$N = 10$$

$$N = 10e^{-0,028 \cdot 10}$$

$$N = 7,538g$$

$$N = 10e^{-0,028 \cdot 50}$$

$$N = 2,467g$$

Alrededor de 2000 o mas

$$(49) m(7) = m 2^{-\frac{1}{8}}$$

$$\frac{1}{16}g = \log 2^{-\frac{1}{8}}$$

$$-\frac{1}{2} = \log_2 \frac{1}{16}$$

$$t = 2 \log_2 \frac{1}{16}$$

$$t = 8 \log_2 (16)$$

$$t = 32 \text{ horas}$$

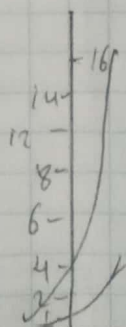
$$(50) P(X=K) = \frac{4^K e^{-4}}{K!}$$

El promedio de numeros de casos admitidos de emergencia en cierto hospital en 1 hora

$$P(X=4) = \frac{4^4 \cdot e^{-4}}{4!}$$

$$P = 0,1465 //$$

$$(51) \text{ Compare } y=2^x \text{ y } y=4 \cdot 2^x$$



no es cierta

0	1	4
1	2	8
2	4	16

$$(52) \text{ Para } y=2^x, \text{ determine } x = \log_2 y = a$$

Redondee su respuesta a dos decimales

$$a = 2^x$$

$$\log_2 9 = x$$

$$x = 3,17 //$$

$$(53) N(140,05)^a = 1$$

$$400(1+0,05)^a = 1000$$

$$(1+0,05)^a = \frac{1000}{400} = \frac{10}{4}$$

$$\log_{1,05} \frac{10}{4} = a$$

$$a = 18,78 //$$

$$(54) 3000(1+0,045)^x = 6000$$

$$(1+0,045)^x = 2$$

$$\log_{1,045} 2 = x$$

$$x = 15,73 //$$