3. 2

#50

$$f(c) = \frac{-3x - 2}{x + 4}$$
 $x = \frac{-3y - 2}{y + 4}$
 $x = \frac{-3y - 2}{y + 4}$
 $x(y + 4) = -3y - 2$
 $xy + 4x = -3y - 2$
 $xy + 3y = -4x - 2$
 $(x + 3)y = -4x - 2$
 $(x + 3)y = -4x - 2$
 $y = \frac{-4x - 2}{x + 3} = f(a)$

b) Domain of $f(a) = Range \neq f(a)$: $R - 1 - 43$
 $f(x) = b$
 $f(x) = b$

base

 $f(x) = b$

base

 $f(x) = b$

base

$$f(x) = b$$
 $b > 0, b \neq 1$
 $f(x) = 2^{x} (\frac{1}{2})^{x+1} 3^{-x} (-2)$

$$f(-1) = 2^{3} = 2^{3}$$

$$f(3) = 2^{3} = 8$$

$$f(5) = 2^{572}$$

$$= 2^{2} 2^{1/2}$$

$$= 4 \sqrt{2^{7}}$$

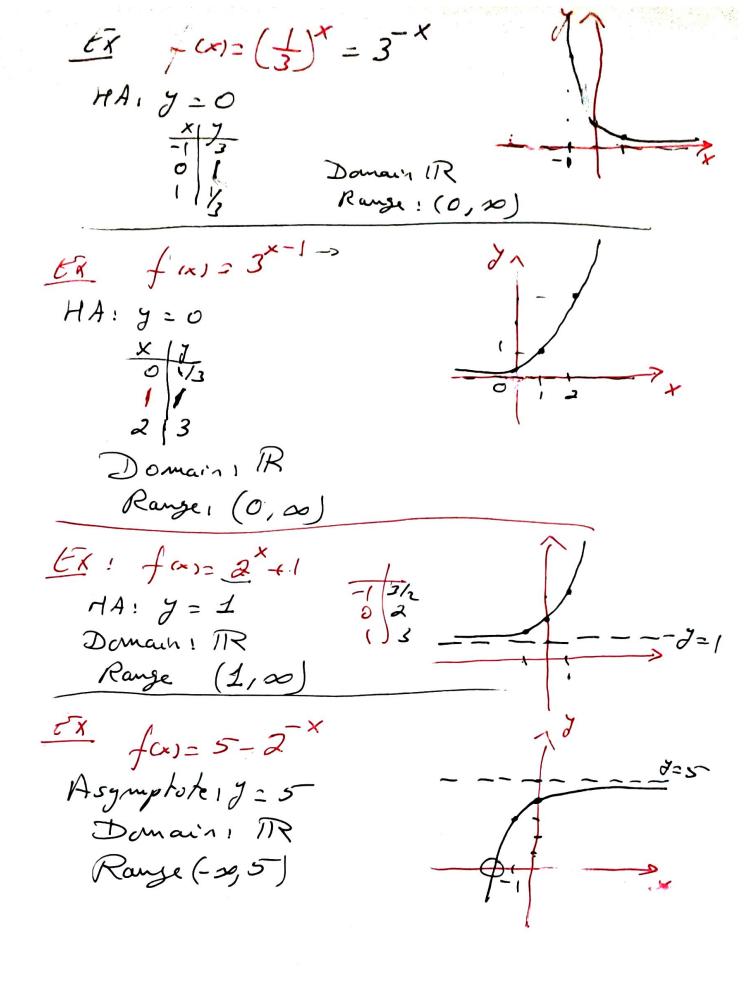
Procedure
$$y = b + d$$

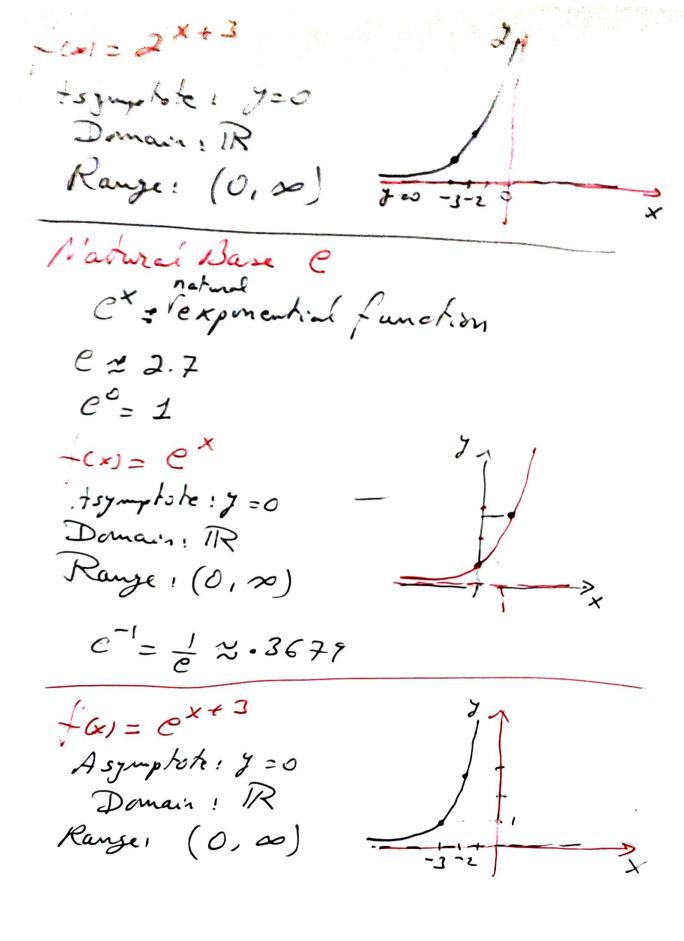
HAI $y = d$

$$f(x) = 3^{x}$$
 $HA \cdot y = 0$

Domain: TR.

Pange: (0,00)





#14 fas = -3+4x-1 Asymptote: y=-3 Domain R Range! (-3,20) Asymptote Domain Range # 14 fix)= 2-4x $\mathbb{R}(-\infty,2)$ 9=2 \mathcal{R} #15 for 3-ex-2 $(-\infty,3)$ y =3 \mathcal{R} $(2, \infty)$ #20 fa)=2+ex-1 y=2 4=2× X=2 solve for y?? $f^{-1}(x) =$ $\chi = 6 \Leftrightarrow \chi = log_{\chi}$ b \$1, >0 log = log lu = log