

# HW 5.4

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HW #3a)

$$y = 2x + 3$$

$$y = 2\left(\frac{x}{3}\right) + 3$$

$$y - 5 = \frac{2x}{3} + 3$$

$$y = \frac{2x}{3} + 8$$

① HE. by 3

② 5 up.

$$\begin{array}{l} x \rightarrow \frac{1}{3}x \\ y \rightarrow y - 5 \end{array}$$

$$y = f(x)$$

$$y = f\left(\frac{x}{3}\right)$$

$$y = f\left(\frac{x}{3}\right) + 5$$

$$y = 2\left(\frac{x}{3}\right) + 3 + 5$$

$$y = \frac{2x}{3} + 8$$

3d)  $y = 2^x + 3$

$$-y = 2^{-x} + 3$$

$$-(y) = 2^{\frac{-x}{2}} + 3$$

$$-(y+1) = 2^{\frac{-x}{2}} + 3$$

$$y+1 = -2^{\frac{-x}{2}} - 3$$

$$y = -2^{\frac{-x}{2}} - 4$$

① refl.  $\underline{VR} \Rightarrow HR$

② HE by 2

③ || Down

$$\begin{array}{l} y \rightarrow -y \\ x \rightarrow -x \\ \hline x \rightarrow \frac{1}{2}x \\ \hline y \rightarrow y + 1 \end{array}$$

$y = 2^x$	}	$y = \left(\frac{1}{2}\right)^x$
<del>H.S</del>		<del>H.S</del>
<del>V.S</del>		<del>V.S</del>
<del>HE</del>		<del>K. 2</del>
<del>VE</del>		<del>V.O</del>
<del>VR</del>		<del>HR</del>

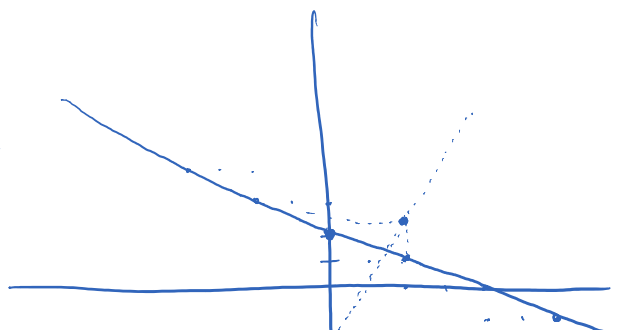
$$y = 2^x \rightarrow$$

$$\begin{array}{l} y = 2^{-x} \\ \hline y = \left(\frac{1}{2}\right)^x \end{array}$$

11) point (2, 2)

Line:  $x + 2y = 4$

$$y = -\frac{x}{2} + 2$$



$$\begin{aligned} 9) \quad y &= \frac{1}{4}x + 5 \\ x &= \frac{1}{4}y + 5 \\ 4(x-5) &= y = f^{-1}(x) \end{aligned}$$

