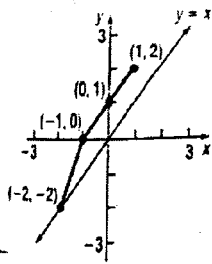
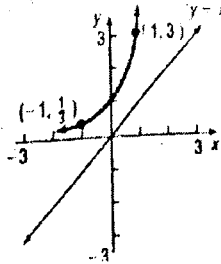


Graph the inverse of the following 1 to 1 function:

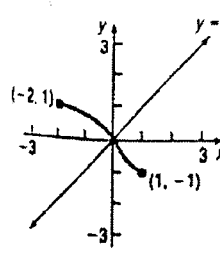
18.)



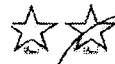
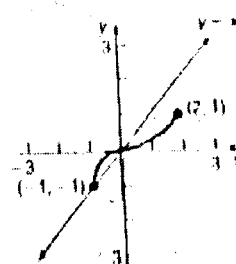
19.)



20.)



21.)



Given that the following functions are 1to1, then find the inverse function:

12.) $f(x) = \frac{2}{3+x}$

15.) $f(x) = \frac{2x-3}{x+4}$

13.) $f(x) = \frac{2x}{x-1}$

16.) $f(x) = 2\sqrt[3]{x}$

14.) $f(x) = \frac{3x+4}{2x-3}$

17.) $f(x) = \frac{4}{\sqrt{x}}$

Complete the Blue or Purple Question around The room

Complete the Yellow Question around The room

Given that the following functions are 1to1, then find the inverse function:

6.) $f(x) = 3x$

7.) $f(x) = 4x+2$

8.) $f(x) = x^3-1$

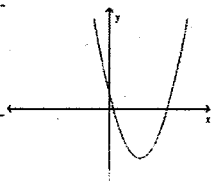
9.) $f(x) = \frac{4}{x}$

10.) $f(x) = \frac{1}{x} - 2$

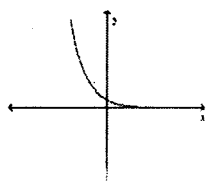
11.) $f(x) = \frac{4}{x+2}$

Start Here: Identify the different types of Relations are listed here and explain why:

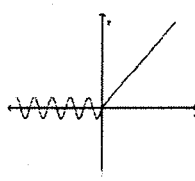
1.)



2.)



3.)

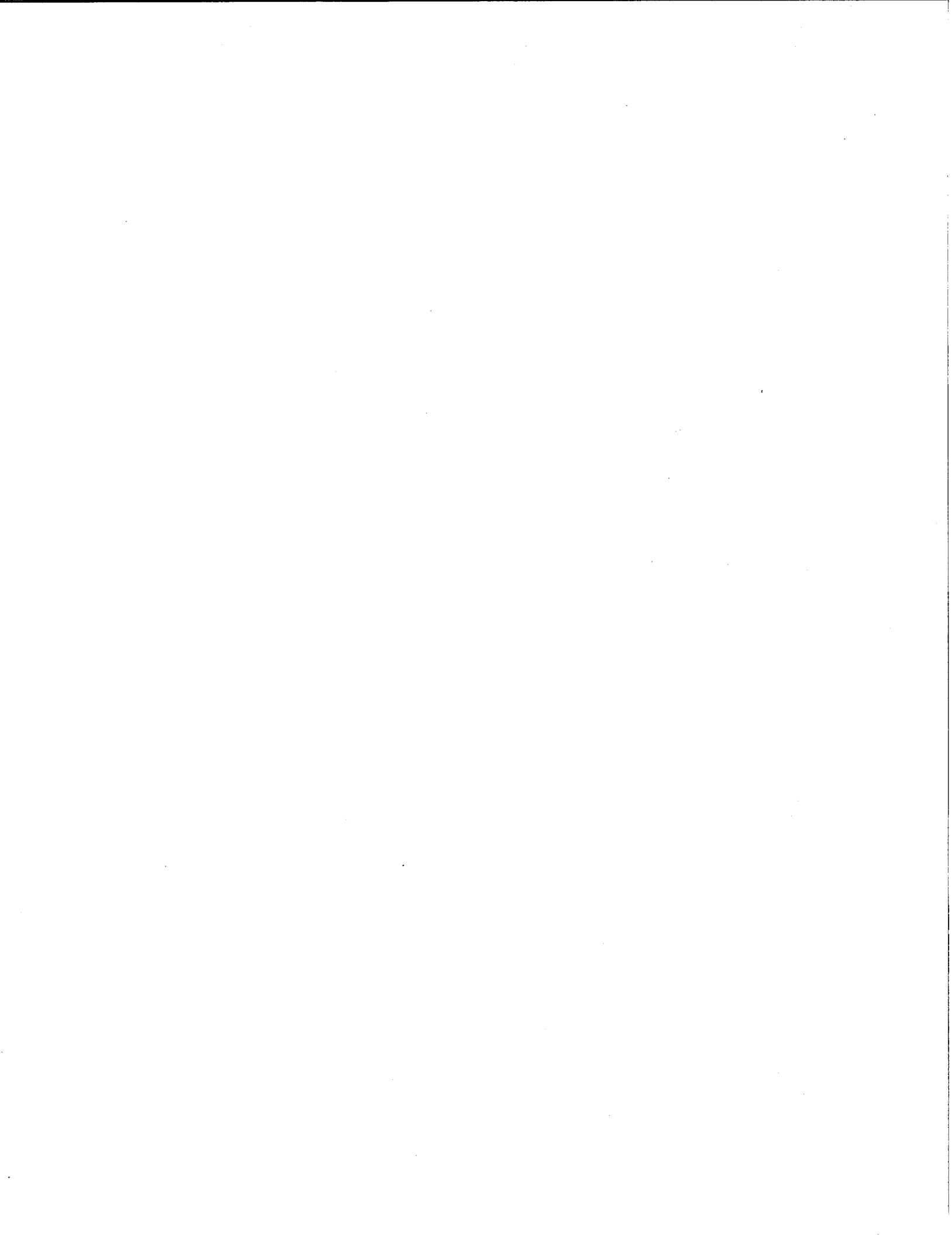


4.)

$\{(1,3), (2, 3), (5,6), (4,8)\}$

5.)

$\{(0,6), (2,5), (4,4), (6,3)\}$



3.) Relation/Function

4.) Function.

5.) One-to-One Function.

6.) $y = 3x \rightarrow \frac{x}{3} = \frac{3y}{3}$

$$\frac{x}{3} = y$$

$$x(3+y) = 2$$

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

$$\boxed{y = \frac{2}{x} - 3}$$

7.) $y = 4x+2 \rightarrow x = \frac{y-2}{4}$

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

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

13.) $y = \frac{2x}{x-1} \rightarrow x = \frac{2y}{y-1}$

$$x(y-1) = 2y$$

$$xy - x = 2y$$

$$-x = 2y - xy$$

8.) $y = x^3 - 1 \rightarrow x = \sqrt[3]{y+1}$

$$\boxed{\sqrt[3]{x+1} = y}$$

$$-x = y(2-x)$$

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

9.) $y = \frac{4}{x} \rightarrow y \cdot x = \frac{4}{y} \cdot y$

$$\frac{yx}{x} = \frac{4}{x}$$

$$\boxed{y = \frac{4}{x}}$$

14.) $y = \frac{3x+4}{2x-3} \rightarrow x = \frac{3y+4}{2y-3}$

$$x(2y-3) = 3y+4$$

$$2yx - 3x = 3y+4$$

$$2yx - 3y = 4+3x$$

$$y(2x-3) = 4+3x$$

$$\boxed{y = \frac{3x+4}{2x-3}}$$

10.) $y = \frac{1}{x-2} - 2 \rightarrow x = \frac{1}{y+2} - 2$

$$y(x+2) = \left(\frac{1}{y}\right) \cdot y$$

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

$$\boxed{y = \frac{1}{x+2}}$$

15.) $y = \frac{2x-3}{x+4} \rightarrow x = \frac{2y-3}{y+4}$

$$x(y+4) = 2y-3$$

$$xy + 4x = 2y-3$$

$$xy - 2y = -4x-3$$

$$y(x-2) = -4x-3$$

$$\boxed{y = \frac{-4x-3}{x-2}}$$

11.) $y = \frac{4}{x+2} \rightarrow (x+2)y = 4$

$$(y+2)x = 4$$

$$y+2 = \frac{4}{x}$$

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

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

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

$$y = \frac{x^3}{8}$$

$$17.) y = \frac{4}{\sqrt{x}} \rightarrow x = \frac{4}{\sqrt{y}}$$

$$x\sqrt{y} = 4$$

$$\left(\sqrt{y}\right)^2 = \left(\frac{4}{x}\right)^2$$

$$y = \left(\frac{4}{x}\right)^2 = \frac{16}{x^2}$$

