①
$$g(-2) = (-2)^{2} + 9 = 13$$

 $f(13) = \frac{13-6}{13} = \frac{7}{13}$

$$f(-2) = \frac{-2 - 6}{-2} = 4$$

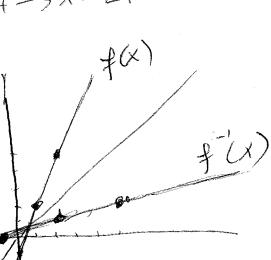
$$g(4) = 4^{2} + 9 = 25$$

X+7-4(X-3)

b)
$$\frac{x-4}{x+7} + 7$$
 $\frac{x+7}{x+7} = \frac{x-4+2(x+7)}{x-4-3(x+7)}$ $\frac{x-4}{x+7} - 3$ $\frac{x+7}{x+7} = \frac{x-4+2(x+7)}{x-4-3x-21} = \frac{x-4+2x+14}{x-4-3x-21} = \frac{x-4+2x+14}{x-4-3x-21} = \frac{x-4+2x+14}{x-4-3x-21} = \frac{x-4+2x+14}{x-4-3x-21}$

(3) a)
$$x = 3y - 1$$

 $\frac{x+1}{3} = y$
 $f'(x) = \frac{x+1}{3}$
 $x_1 f(x) = x_1 f'(x)$



(4) It's exponential.
$$f(x) = 6(5)^{\times}$$

(5) $10^{2-x} = \frac{13}{2}$
 $2-x = \log \frac{13}{2}$
 $x = z - \log \frac{13}{2}$

(6) a) $W(7z) = 49+2.3(72-61)$
 $= 74.3 \text{ kg}$

b) $W-49 = z.3(h-61)$
 $\frac{W-49}{2.3} = h-6/$
 $h=\frac{W-49}{2.3} + 6/$

(7) $h=\frac{W-49}{2.3} + 6/$

(8) $\frac{X}{9}(x)$
 $-\frac{1}{4}$
 $-\frac{1}{$

$$\frac{331}{760} = 760e^{-0.145h}$$

$$\frac{331}{760} = -0.145h \cdot 50h = \frac{331}{-0.145} = 5.73 \text{ km}$$

$$\frac{399}{280} = 280(1.012)
\frac{399}{280} = (1.012)
\frac{1.012}{1.012}$$

$$\frac{399}{280} = (t-1995) ln 1.012$$

$$t = \frac{ln \frac{399}{280}}{ln 1.012}$$

add
$$\{-2(x-2y+3z=1)\}$$

add $\{-2x+4y-6z=-2z\}$
 $\{-2x+4y+z=z\}$
 $\{-3y-5z=-2z\}$

$$3(x-2y+3z=11)$$

 $3x-6y+9z=33$
 $-3x+2y-2z=-14$

-4y +72 = 19

$$-4(7-4)+77=19$$

 $-47+16+77=19$

$$y = 1 - 4 = -3$$

$$(2)^{-3}$$
 $(2)^{-3}$
 $(2)^{-3}$