$$1.28^{2} \cdot 4^{x} \cdot 2^{x} = 8^{4}$$

$$\frac{y}{x} = \frac{1}{3} \qquad \left(\frac{y}{x}\right)^{\frac{1}{3}} = \left(\frac{1}{3}\right)^{\frac{1}{3}}$$

$$\left(\frac{x}{\lambda}\right)_{k} = \frac{1}{81}$$

b)
$$g(x+\xi) = xy+y\xi$$

$$\frac{1}{x^2} = x^{y-z}$$
 Falle.

1.6
$$la(x) > e$$

$$F = \left(\frac{2|2-32}{100}\right) C + 32.$$

when F=C

$$\left(\frac{212-32}{100}\right)C+32=C$$

$$0.8C = 0 - 32.$$

2.2
$$f(x) = 3x - 12$$
 $f(y) = 0$.

$$239^{x^2-6x+2}=81$$

$$x^2 - 6x + 2 = 2$$
.

$$\times(\times-6)=0$$

$$1.03^{\times} = 3$$

3.2
$$\lim_{x \to 5} \frac{x^2 - 25}{x - 5}$$

$$= (x-5)(x+5)$$

$$= x+5$$

$$3.3 f(x) = x^{3} + at(-02.12).$$

$$=3x^{2}$$

3.4
$$f(x) = \frac{x^{5} + 3}{x^{2} - 1}$$

$$= \frac{5x^{6}(x^{2} - 1) + 2x^{6}(x^{5} + 3)}{(x^{2} - 1)^{2}}$$

$$= \frac{5x^{6} - 5x^{6} + 2x^{6} + 6x}{x^{4} - 2x^{2} + 1}$$

$$= \frac{3x^{6} - 5x^{6} + 6x}{x^{4} - 2x^{2} + 1}$$

3.5
$$f(x) = x^{4}$$

= $9x^{8}$
= $72x^{4}$.

3.5
$$f(x,y) = x^3 - y^2$$

= 8 - 9
=-1

$$3.9 f(xy) = U_1(x-3y)$$

 $x-3y=0$
 $x=3y=0$

$$3.10.2 \times 5.59^{7} + \frac{x^{2}}{y^{3}}$$

4.1
$$A = \begin{bmatrix} 2 & 5 & 7 \\ 2 & 1 & 7 \\ 7 & 6 \end{bmatrix}$$
 $B = \begin{bmatrix} 1 & 0 & 1 & 7 \\ 9 & 1 & 5 \end{bmatrix}$
 $B \cdot A = \begin{bmatrix} 2 & 5 & 1 & 7 \\ 7 & 6 & 7 \\ 9 & 1 & 5 & 7 \end{bmatrix}$

$$4.4 \quad \begin{bmatrix} 2 & 6 \\ 2 & 8 \end{bmatrix}$$

$$16 - 12 = 4$$

5.1 6²=36

 $\frac{5.2. \ 0.00.1 \times 0.98}{0.11.0.991 \times 0.003 + 0.98 \times 0.001} \approx 24.64\%$

5.3 $\frac{1}{6} \times 20 = \frac{20}{6} = \frac{10}{3}$ Due to each time of tossies is independent event