$$\frac{1.1}{x^{n-2}} = \frac{x^{n-2+H}}{x^{n-2}} = x^{H}$$

$$x^{-1} \cdot 8 = 2$$
 $x^{-1} = \frac{2}{23} = \frac{1}{4}$

$$\frac{1.4.}{\sqrt{x}} = \frac{2\sqrt{x}}{\sqrt{x}} = 2$$

1.5.
$$x^{2} + (x + 1)^{2} = (x + 2)^{2}$$

$$x^{2} + x^{2} + 2x + 1 = x^{2} + 4x + 4$$

$$x^{2} - 2x - 3 = 0$$

$$(x + 1)(x - 8) = 0$$

$$x_{1} = -1$$

$$x_{2} = 3$$

1.6.
$$2^{\times} > 102H$$

 $2^{\times} > 2^{0}$
 $\times > 10$

2.3.
$$f(x) = 5x + 4$$

 $f(3) = 5 \cdot 3 + 4 = 19$

$$\frac{2.3.}{x^2-4x+3-0} = \frac{2}{4\pm\sqrt{16-12}}$$

$$\frac{2.1t}{2.5}$$
. 10. $1,02^{30} = 59,11313$

$$\frac{12}{6} + \frac{12}{36} + \frac{12}{212} \dots$$

$$an -12\frac{1}{6} \quad a=12 \quad b=\frac{1}{6}$$

$$\frac{12 \cdot \frac{1}{6}}{1 - \frac{1}{6}} = \frac{2}{5} = \frac{12}{5}$$

$$\frac{3.2.}{\lim_{X \to \infty} \frac{6^{(1-x)}}{X}} = \frac{6^{1-x+x}}{x \cdot 6^x} = \frac{6}{x \cdot 6^x} \approx \frac{6}{\lambda \cdot 6^a} = 1$$

$$f(x) = x^{5} - 8$$

$$f'(x) = 5x^{4}$$

$$f'(-3) = 5 \cdot (-3)^{4} = 81 \cdot 5 = 405$$

$$3 \cdot 4$$

$$\frac{\partial}{\partial x} \frac{x^3 + 2x - \lambda}{x - 2} = \frac{2}{3}$$

$$\left(\frac{1}{9}\right)^3 = \frac{1}{9} \frac{1}{9} \frac{1}{9} \frac{1}{9}$$

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

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

$$\frac{3.5}{ax^{2}} + x^{4} + 4x^{2}$$

$$ax = 16 x^{3} + 8x$$

$$ax = 48 x^{2} + 8$$

$$\frac{d}{dx} \frac{\ln x}{e^{x}} = \frac{\frac{1}{x} \cdot e^{x} - \ln x \cdot e^{x}}{(e^{x})^{2}} = \frac{\frac{1}{x} - \ln x}{e^{x}}$$

$$\frac{37.}{(x)=3x^2-5x+2}$$

$$f(x) = 6x - 5$$

 $0 = 6x - 5$
 $\frac{5}{6} = x$

$$f(x,y) = x^2 + y^3$$

 $f(2,3) = 31$

$$\frac{4.1.}{2} \begin{bmatrix} 1 & 1 & 1 & 1 \\ 2 & 6 & 14 & 50 & 23 \\ 5 & 1 & 7 & 13 & 37 \\ 1 & 9 & 19 & 73 & 25 \\ 1 & 9 & 1 & 73 & 25 \\ 1 & 9 & 1 & 39 & 59 \\ 2 & 1 & 2 & 10 & 16 \\ 1 & 10 & 16 & 16 \\$$

$$\frac{4.3}{9.1} = \frac{4.3}{1.8}$$

$$\frac{4.3}{9.1} = \frac{4}{1.8}$$

$$\frac{4.3}{4.4} = \frac{4}{1.9}$$

$$\frac{4.4}{2}$$
 det $\begin{bmatrix} 1 & 9 \\ 2 & 8 \end{bmatrix} = -10$

5.1.

$$5.2.$$
 $(1/4) + 99/4 1/.$
 $(99/4) - 0.5/4 99/4 99/4 .0.5/4 = 1.1485/4$
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