1.1.
$$\frac{x^{n+2}}{x^{n-2}} = \frac{x^{n-2+4}}{x^{n-2}} = x^4$$

$$x^{-1}.8=2$$
 -> $x^{-1}.2^3=2$ -> $x^{-2}=\frac{2^{3}}{2^3}=\frac{1}{4}$

$$(5^{10})^0 = 1$$

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

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

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

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

$$(x + 1a) \cdot (x - 3) = 0$$

$$x_2 = 3$$

$$2^{\times}$$
 > 1024
 2^{\times} > 2¹⁰

$$X = 32 + 1.8x$$

$$32+7.8 \times = \times -7.3 \times = -0.8 \times -7 \times = -40$$

$$f(x) = f(x) =$$

$$2.3 / x^{2} - 4x + 3 = 0 (x-1).(x-3) = 0 x_{2} = 3$$

2.4,

3.1/
$$\frac{8}{60} = \frac{12}{60} = \frac{1}{2}$$
 $\frac{1}{60} = \frac{1}{2}$ $\frac{1}{60} = \frac{1}{2}$

$$\lim_{x \to 1} \frac{6^{(1-x)}}{x} = \frac{6^{1-x} \times x}{x \cdot 6^{x}} = \frac{6}{x \cdot 6^{x}} = \frac{6}{1 \cdot 6^{1}} = 1$$

3.3/
$$f(x) = 1/(x^5 - 8)$$

 $f'(x) = 5x^4$
 $f(-3) = 5(-3)^4 = 81.5 = 4.55$

$$\frac{3.5}{dx^2} \cdot 4x^4 + 4x^2$$

$$d_1 = 16x^3 + 8x$$
 $d_2 = 48x^2 + 8$

$$\frac{3.6}{dx} \frac{d}{e^x} = \frac{1/x \cdot e^x - h_{x} \cdot e^x}{(e^x)^2} = \frac{1/x - h_x}{e^x}$$

3.8/
$$f(x,y) = x^2 + y^3$$
 $f(z_13) = 2^2 + 3^3 = 31$

3.9,
$$f(x,y) = In(x-y) = (x-y) > 0$$
 $x > y$

$$3.10/\frac{\partial}{\partial x} \times 5 + xy^3 = 5x^4 + y^3$$

3.11
$$f(x_1y) = x^2y^2 + 10$$
 $f'y = x^2 2y$ $x = 0$

$$2 \times y^{2} - \lambda = 0
2 \times y^{2} - \lambda = 0
\times y^{2} - \lambda = 0
\times y^{2} = 2yx^{2}
\times y^{2} = 10
\times y^{2$$

4.1. $\begin{bmatrix} 2 & 6 \\ 7 & 1 \\ 2 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 6 \\ 7 & 7 \\ 7$ [1 2 7 7 7 14 50 23 19 43 25 191 1.2+ 1.2+ 212 1.4 9.6 212 1.4 1.3 2.2+ 2.2+ 1.4+ 1.6+ Doug User Dag test 6 16 20 17. 14. 17. 185 4. 185 4.