

$$f(t) = \frac{t^9}{18}$$

$$\frac{(t^9)'(18) - (18)'(t^9)}{18}$$

$$\frac{9t^8(18) - 0}{18}$$

$$f(t) = 9t^8 //$$

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

$$\frac{(x^3)'(3) - (3)'(x^3)}{3}$$

$$\frac{3x^2(3) - 0}{3}$$

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

$$f(x) = x + 3$$

$$x' + 3'$$

$$f(x) = 1$$

$$f(x) = 3x - 2$$

$$(3x) - 2$$

$$f(x) = 3 //$$

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

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

$$f(t) = -2t + 14$$

$$f(t) = -13t^2 + 14t + 1$$

$$g(p) = 4p^2 - 9p^2$$

$$(1) (p_1 - (3p_2))$$

$$g(p) = 4p^2 - 9p^2$$

$$f(x) = 4x - 5$$

$$f(x) = 4x^2 - 5x$$

$$f(x) = 8x - 2$$

$$f(x) = 4x^2 - 2x + 3$$

$$f(x) = 203 - x^3$$

$$f(5) = 203 - 125 = 78$$

$$f(x) = 5(5^4 - 3)$$

$$f'(x) = -3x^2$$

$$0 - 8x^3$$

$$f'(26) = -8(26)^3$$

$$26 - 2x^4$$

$$f(x) = 2(13 - x^4)$$

$$V'(1) = 81 + 421 - 48 = 454$$

$$f(1) = (1)^3 + (31)^3 + (1)^3$$

$$V(1) = 18 - 1 + 1 + 1 = 19$$

$$y(x) = -39x^2 + 28x - 2$$

$$(-13x^3)' + (14x^2)' + (3)'$$

$$y = -13x^3 + 14x^2 - 2x + 3$$

$$-32x^3$$

$$-32x^3 + 0$$

$$-32x^3 + m_2(2)$$

$$(-8x^4)' + (m_2)$$

$$y = -8x^4 + m_2$$

$$y(x) = 8x^3 + 5x^4$$

$$(8x^3)' + (5x^4)'$$

$$y = -x^8 + x^5$$

$$f(x) = -6x + \frac{2}{9}$$

$$(-3x^2) + (x\frac{2}{9}) + (2)$$

$$f(x) = -3x^2 + \frac{2}{9}x + 2$$

$$f(x) = 16x^3 + 3x^2 - 9x + 8$$

$$(4x^4) + (x^3) - (x^2) + (14x)$$

$$f(x) = 4x^4 + x^3 - \frac{2}{9}x^2 + 14x$$

$$f(x) = 20x^3$$

$$\frac{2}{40x^3}$$

$$(20x^3 - 0)(2) - 0(5x^4 - 30)$$

$$(5x^4 - 30)(2) - (2)(5x^4 - 30)$$

$$\frac{2}{5x^4 - 30}$$

$$f(x) = 50x^4 - 61$$

$$g(x) = -3x^3$$

$$\frac{-9x^3}{3 - 0}$$

$$(0 - 3x^3)(3) - (13 - x^4)(0)$$

$$(13 - x^4)(3) - (13 - x^4)(3)$$

$$g(x) = 13 - x^4$$

$$h(x) = x \cdot \frac{2}{3}$$

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$$h(x) = \frac{5}{11} \cdot \frac{1}{x} = \frac{5}{11x}$$

$$h(x) = \frac{5}{11} \cdot \frac{1}{x}$$

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$$h(x) = \frac{5}{11} \cdot \frac{1}{x} + \frac{2}{3} \cdot \frac{2}{3}$$

$$h(x) = \left(-\frac{2}{3} \right) \cdot \frac{5}{11}$$

$$h(x) = \frac{2}{3} \cdot \frac{2}{3} - \frac{5}{11}$$

$$\frac{5}{2} \times \frac{5}{10} + \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$$

$$\frac{5}{2} \times 2 \times \frac{1}{2} \times \frac{1}{2} = \frac{5}{2}$$

$$\frac{5}{61} \times \frac{5}{82} = (x) f$$

$$A(2) \left(\frac{5}{11} \right)$$

$$x2 = (x) f$$

$$\frac{2}{5} \times \frac{2}{5} = (x) f$$

$$\frac{2}{5} \times x = (x) f$$

$$\frac{5}{2} + x = (x) f$$

$$\frac{5}{2} + \frac{t}{4x + 5}$$

$$\left(\frac{5}{2} \right) + \left(\frac{t}{4x + 5} \right)$$

$$\frac{5}{2x + 2} + \frac{t}{t} = (x) f$$

$$\frac{2}{2} \times \frac{5}{5} + \frac{5}{5} \times \frac{5}{5} = (x) f$$

$$\frac{2}{2} \times \frac{5}{5} + \frac{5}{5} \times \frac{5}{5}$$

$$\left(\frac{5}{2} + \frac{5}{2} \right) + \left(\frac{5}{2} + \frac{5}{2} \right)$$

$$\frac{5}{2} \times \frac{5}{2} + \frac{5}{2} \times \frac{5}{2} = (x) f$$

$$\frac{u}{3}x = (x)u$$

$$\frac{u}{3}x \frac{u}{3}x$$

$$u \times u$$

$$u \times u$$

$$\sqrt[3]{x^2} u = u$$

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

$$6 \left(\frac{3}{2} \right) \frac{1}{3}$$

$$6 \frac{1}{3}$$

$$f(1) = 6 \sqrt[3]{1}$$

$$y'(x) = \frac{3}{2}x^{\frac{1}{2}}$$

$$x^{\frac{3}{2}}$$

$$y = \sqrt[3]{x^2}$$

$$\frac{x^2}{x} = \frac{2}{11} \cdot \frac{1}{x} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\frac{2}{11} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\frac{2}{11} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$x^{\frac{1}{11}} = y$$

$$\frac{s}{t}x^{\frac{s}{2}} + \frac{s}{2}x^{\frac{s}{2}} = x^{\frac{s}{2}}A$$

$$\frac{s}{t}x^{\frac{s}{2}} \left(\frac{s}{2} - 1 \right) = x^{\frac{s}{2}}A$$

$$y = \frac{s}{2}x^{\frac{s}{2}} - x^{\frac{s}{2}} = y$$

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

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

$$f(x) = -0x$$

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

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$$f(x) = -0x$$

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

$$\frac{2+2}{1} = 2 + \frac{2}{1} = (2) \cdot 1$$

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

$$1 + \frac{2}{1}$$

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

$$\frac{1}{2} \times 10 = (1) \cdot$$

$$1 \times \left(\frac{2}{3}\right) \cdot (1) \cdot$$

$$\frac{1}{3} \times \frac{2}{3}$$

$$\frac{2 \times 2}{3} = \frac{4}{3}$$

$$1 \times 10 = (1) \cdot 10$$

$$1 \times \frac{1}{10} \cdot 10$$

$$\frac{1}{10} \times \frac{1}{10}$$

$$\frac{1 \times 1}{10} = \frac{1}{10}$$

$$1 \times \frac{1}{5} \cdot (1) \cdot 1$$

$$1 \times \frac{1}{5}$$

$$\frac{1 \times 1}{5} = \frac{1}{5}$$

$$1 \times 10 = (1) \cdot 10$$

$$1 \times (1) \cdot 10$$

$$1 \times 1 = 1$$

$$\frac{1}{1} = 1$$

$$f(x) = -3x - \frac{3}{2} = -3x - \frac{3}{2}$$

$$f(x) = -3x - \frac{3}{2} = -3x - \frac{3}{2}$$

$$f(x) = -3x - \frac{3}{2} = -3x - \frac{3}{2}$$

$$f(x) = -3x - \frac{3}{2}$$

$$x - 4x$$

$$x(2) - x(2) = 2 - 2 = 0$$

$$(x(2) - (x(2)))$$

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

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

$$(x(2) - (x(2)))$$

$$(x(2) - (x(2)))$$

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

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

$$x(2) - x(2) = 2 - 2 = 0$$

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

$$y'(x) = \frac{1}{\sqrt[3]{x^2}}$$

$$y'(x) = \frac{1}{\sqrt[3]{x^2}} = x^{-\frac{2}{3}}$$

$$f'(x) = \frac{1}{\sqrt[3]{x^2}}$$

$$f'(x) = \frac{1}{\sqrt[3]{x^2}} = x^{-\frac{2}{3}}$$

$$f(x) = \frac{1}{\sqrt[3]{x^2}}$$

$$g'(x) = \frac{1}{\sqrt[3]{x^2}}$$

$$g(x) = \frac{1}{\sqrt[3]{x^2}}$$

$$f(x) = \frac{1}{\sqrt[3]{x^2}} + \frac{1}{\sqrt[3]{x^2}}$$

$$3 \cdot \frac{1}{\sqrt[3]{x^2}} - 0 - 0 = \frac{3}{\sqrt[3]{x^2}}$$

$$(3 \cdot \frac{1}{\sqrt[3]{x^2}})' = (3 \cdot x^{-\frac{2}{3}})'$$

$$3 \cdot \frac{1}{\sqrt[3]{x^2}} - 144 - 82 = \frac{3}{\sqrt[3]{x^2}}$$

$$f(x) = 3 \cdot \frac{1}{\sqrt[3]{x^2}} - 122 - 82 = \frac{3}{\sqrt[3]{x^2}}$$

$$w(x) = \frac{3}{x} - \frac{3}{10}x$$

$$\frac{3}{x} - \frac{3}{10}x = \frac{3}{x}$$

$$(x \cdot \frac{3}{x}) - (\frac{3}{10}x \cdot x)$$

$$3 - \frac{3}{10}x^2$$

$$w(x) = 3 - \frac{3}{10}x^2$$

$$f(x) = 9x^2 - 20x + 7$$

$$(3x^2) - (10x) + (7)$$

$$3x^2 - 10x + 7$$

$$f(x) = x(3x^2 - 10x + 7)$$

$$f(x) = 15x^4$$

$$(3x^2)$$

$$f(x) = x^3(3x^2)$$

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

$$\frac{2}{x}$$

$$\frac{2}{x} = \frac{2}{1} \cdot \frac{1}{x}$$

$$y = x^2 \sqrt{x} = y$$

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

$$\frac{2}{x} = \frac{2}{1} \cdot \frac{1}{x}$$

$$\frac{2}{x} = \frac{2}{1} \cdot \frac{1}{x}$$

$$\frac{2}{x} = \frac{2}{1} \cdot \frac{1}{x}$$

$$y = \frac{x^2 \sqrt{x}}{1} = y$$

$$N(x) = x^{\frac{3}{2}} - \frac{3}{10}x^{\frac{3}{2}}$$

$$\frac{3}{10}x^{\frac{3}{2}} + 5\left(\frac{3}{2}\right)$$

$$(x^{\frac{3}{2}})' + (5x^{\frac{3}{2}})'$$

$$x^{\frac{3}{2}} + 5x^{\frac{3}{2}}$$

$$N(x) = x^{\frac{3}{2}} + 5x^{\frac{3}{2}}$$

$$f(x) = 5\sqrt{x} - a\sqrt{x} + \frac{2x}{a}$$

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

$$\frac{7}{2}x^{\frac{1}{2}}(5-6x+3x^{\frac{1}{2}}) + (x^{\frac{1}{2}})(0-6+3(\frac{4}{3})x^{\frac{1}{2}})$$

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

$$f(x) = \sqrt{x}(5-6x+3\sqrt{x})$$

$$f(x) = 45x^{\frac{1}{2}}$$

$$27x^{\frac{1}{2}} + 18x^{\frac{1}{2}}$$

$$(3x^{\frac{1}{2}})(9x^{\frac{1}{2}}) + (x^{\frac{1}{2}})(6x)(3)$$

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

$$f(x) = x^3(3x)^2$$

$$f(x) = 27x^8 - 25x^4 + 12x^2$$

$$(3x^8)' - (5x^4)' + (4x^2)'$$

$$3x^8 - 5x^4 + 4x^2$$

$$f(x) = x^3(3x^6 - 5x^4 + 4x^2)$$

IDEAL

$$\frac{gm}{s^2 + mh} \cdot (x) = \frac{gm}{(s^2 + mh)h} \cdot m$$

$$\frac{m}{hms^2 + ms - m^2}$$

$$\frac{m}{hms^2 + ms - m^2}$$

$$\frac{2(m)}{(s-m)(ms) - (sm)(-1)}$$

$$\frac{2(sm)}{(s-m)(ms) - m(s-m)}$$

$$\frac{sm}{s-m} = (m)f$$

$$\frac{2b}{h} + b_8 = (b)f$$

$$2 - b_h + 0 + b_8$$

$$(\frac{b_h}{h}) - (1) + (\frac{b_h}{h})$$

$$\frac{b_h}{h} - 1 + \frac{b_h}{h}$$

$$\frac{s}{h} - \frac{b}{bh} + \frac{b}{bh}$$

$$\frac{b}{h - bh + bh} = (b)f$$

$$\frac{s}{2}x \cdot \frac{s}{s^2} + \frac{s}{2}x \cdot \frac{s}{s^2} + \frac{s}{2}x \cdot \frac{s}{s^2} = (x)f$$

$$\frac{s}{2}x \cdot \left(\frac{s}{3}\right) + \frac{s}{2}x \cdot \left(\frac{s}{3}\right) + \frac{s}{2}x \cdot \left(\frac{s}{3}\right)$$

$$\left(\frac{s}{2}x\right) + \left(\frac{s}{2}x\right) + \left(\frac{s}{2}x\right)$$

$$\frac{s}{2}x + \frac{s}{2}x + \frac{s}{2}x$$

$$\frac{s}{2}x = x^2 \cdot \frac{s}{2} = (x)f$$

$$f(x) = \frac{hx}{x^4}$$

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

$$\frac{hx}{x^4} = \frac{(2x+3x^2)(x^2) - (x^2+x^3)(2x)}{(x^2)(x^2)}$$

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

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

$$f'(x) = 4x^3 + 6x^2 - 6x$$

$$\begin{aligned} & 3x^3 + 12x^2 - 4x^2 - 10x + x^3 - 2x^2 \\ & (3x^2 - 4x)(x+4) + (x^3 - 2x^2)(x) \\ & (x^3 - 2x^2)(x+4) + (x+4)(x^3 - 2x^2) \end{aligned}$$

$$(x^3 - 2x^2)(x+4)$$

$$f(x) = x^2(x-2)(x+4)$$

$$f(x) = 2x^2 + 4x + 1$$

$$1 + x + 3x$$

$$(x+3) + (1)(x+1)$$

$$(x+1)(x+3) + (x+3)(x+1)$$

$$f(x) = (x+1)(x+3)$$

$$\frac{h^2}{(x^2 - \frac{1}{2}x)^2}$$

$$\frac{h^2}{\frac{2}{5}x^2 - (x^2 + \frac{2}{5}x^2)}$$

$$\frac{h^2}{\frac{2}{5}x^2 - (x^2 + \frac{2}{5}x^2)}$$

$$\frac{2x^2 - \frac{2}{5}x^2 - (x^2 + \frac{2}{5}x^2)}{x^2}$$

$$\frac{(2x^2 - \frac{2}{5}x^2 - (x^2 + \frac{2}{5}x^2))}{x^2}$$

$$\frac{(2x^2 - \frac{2}{5}x^2 - (x^2 + \frac{2}{5}x^2))}{x^2}$$

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