$$\frac{1}{6/6} = \frac{1}{9(2)} = \frac{(52-3)(2+2)}{(52-3)(1)} = \frac{1}{9(2)} = \frac{5 \cdot (2+2)}{(2+2)} + \frac{(52-3)(1)}{(2+2)} = \frac{1}{9(2)} = \frac{1}{9(2)}$$

$$\pm \frac{4}{5(t)} = (t^2 + 2)(3t^2 - 1)$$

$$5'(t) = (2t)(3t^2 - 1) + (t^2 + 2)(6t)$$

$$+1$$

$$F'(w) = (1) \left[(2w-1)(3w-1) \right] + (w-1) \cdot \left[\frac{d}{dw} \left((2w-1)(3w-1) \right) \right]$$

$$= (2w-1)(3w-1) + (w-1)(2 \cdot (3w-1) + (2w-1)(3))$$

$$F'(w) = (2w-1)(3w-1) + 2(w-1)(3w-1) + 3(w-1)(2w-1)$$

$$+2$$

$$\frac{\#8}{f(x)} = \frac{x^2}{1+2x^3}$$

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

$$\frac{\pm 10}{h(2)} = \frac{1+2z^{3}}{1+2^{2}}$$

$$h'(2) = \frac{(6z^{2})(1+z^{2}) - (1+2z^{3})(2z)}{(1+z^{2})^{2}} + 1$$

$$\frac{2}{2/2} \qquad p(z) = (1+3z)^{2}(1+2z)^{3}$$

$$p'(z) = \left[(1+3z)^{2} \right] \cdot (1+2z)^{3} + (1+3z)^{2} \left[(1+2z)^{5} \right]'$$

$$= \left[2 \left(1+3z \right) \cdot 3 \right] \cdot (1+2z)^{3}$$

$$+ (1+3z)^{2} \left[3 \left(1+2z \right)^{2} \cdot 2 \right]$$

$$p'(z) = \left(6 \left(1+3z \right) \left(1+2z \right)^{3} + 6 \left(1+3z \right)^{2} \left(1+2z \right)^{2}$$

$$+2$$

$$\frac{1}{1+x^{3}} \qquad Gr(x) = \frac{1}{1+x^{3}}$$

$$\frac{1}{1+x^{3}} \qquad Gr'(x) = \frac{1}{(1+x^{3})^{2}} \cdot (3x^{2})$$

$$Gr'(1) = \frac{-1}{(1+x^{3})^{2}} \cdot (3) = \frac{-3}{4}$$

$$\lim_{x \to \infty} \frac{1}{1+x^{2}} \qquad \lim_{x \to \infty} \frac{1}{1+x^{2}} = \frac{1}{1+x^{2}} \qquad \lim_{x \to \infty} \frac{1}{1+x^{2}} = \frac{1}{1+x$$

$$\frac{151}{p(x)} = f(x) g(x)$$

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Inconf.
$$P'(x) = f'(x)g'(x) = 1 \cdot 2x = 2x$$

(overef: $p(x) = x \cdot x^2 = x^3$,

5) @
$$M(t) = 1+t^{2}$$

 $V(t) = 1+2t$
 $g(t) = \frac{1+t^{2}}{1+2t}$ $(\frac{M}{V})$

$$g(t) = \frac{1+t^2}{1+2t} \qquad \left(\frac{M}{V}\right)$$

(b)
$$g'(t) = \frac{(2t)(1+2t) - (1+t^2)(2)}{(1+2t)^2} = \frac{2t + 4t^2 - 2 - 2t^2}{(1+2t)^2}$$

Get the number by solving 2+2+2+-2 =0.

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

$$= e^{-x^{2}} + x \cdot (-2x \cdot e^{-x^{2}}) + 1 \text{ for }$$

$$= e^{-x^{2}} \cdot (1 - 2x^{2})$$
work

$$F'(x) = 0$$
 when $1 - 2x^2 = 0$ (b/e $e^{-x^2} + 6$)

$$2 \times^{2} = 1$$

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

$$+ 32$$