

$$\frac{dy}{dx} = -\frac{2x + 4y}{4x + 2y}$$

$$\frac{dy}{dx} = -\frac{2(2) + 4(1)}{4(2) + 2(1)} = -8 = -\frac{4}{5}$$

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$$\frac{dy}$$

$$Z = 190^{2} + y^{2} \cdot \text{Hence}, \quad Z_{y=45} \cdot 190^{2} + 45^{2}$$

$$= \sqrt{(45.2)^{2} + (45.1)^{2}} = \sqrt{45^{2}(2^{2}+1^{2})} = 45 \cdot \sqrt{5}$$

$$\frac{dZ}{dY} = \frac{45}{4545} \cdot (13) = \frac{13}{\sqrt{5}} \cdot \frac{54}{5} \cdot 5$$

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$$\frac{dh}{dt} = \frac{100}{9\pi h^2} \frac{dV}{dt}$$

$$\frac{dh}{dt} = \frac{8}{9\pi h^2} \frac{cm}{5}$$

$$\frac{f(x)}{f(x)} = \frac{x^3 - 6x^2 - 15x + 4}{9\pi h^2}$$

$$\frac{f(x)}{f(x)} = \frac{3x^2 - 12x - 15}{9x^2 - 15}$$

$$\frac{f''(x)}{f(x)} = \frac{3x^2 - 12x - 15}{9x^2 - 15}$$

$$\frac{f''(x)}{f(x)} = \frac{6x - 12}{9x^2 - 15}$$

$$\frac{3}{9\pi h^2} \frac{f''(x)}{f(x)} = \frac{3x^2 - 15}{9x^2 - 15}$$

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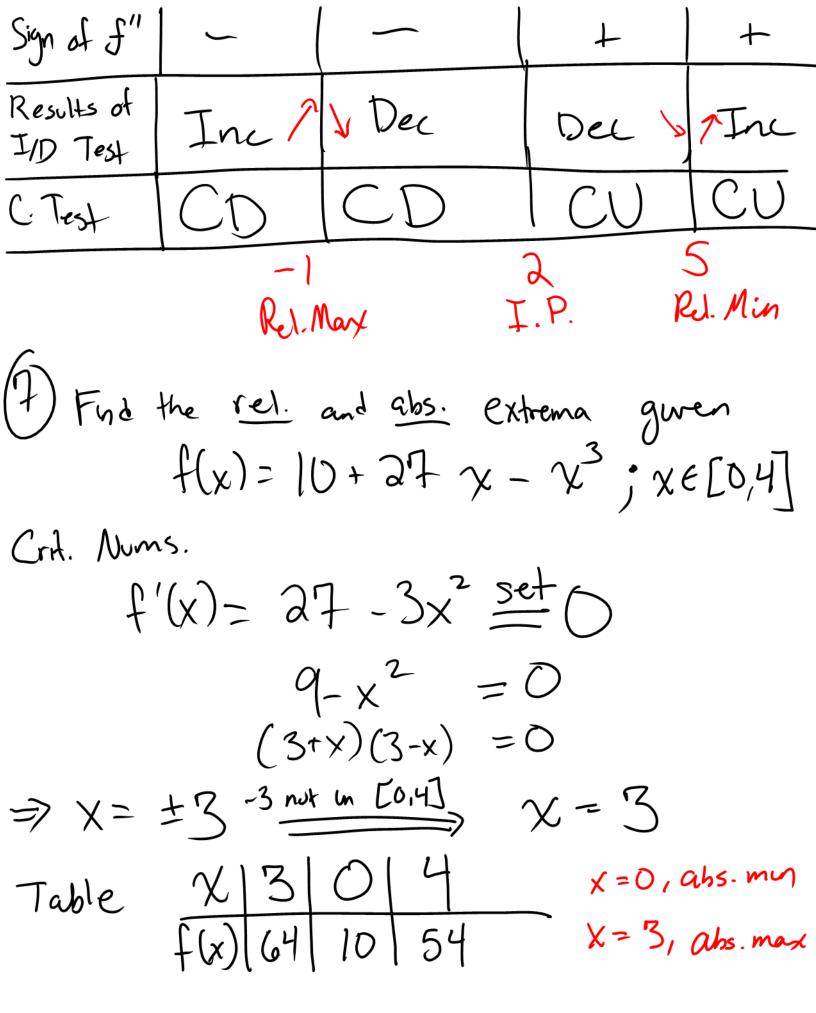
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$$\frac{$$



$$f'(x) = 27 - 3x^{2}$$

 $f''(x) = -9x$
 $f''(3) = -27 < 0$
 $g_{y} = 2^{n+1} + 2^{n+1}$