$$f(x) = x^{2}(1-x^{2})^{3} \qquad \text{Power Rule}$$

$$(x)'+u'v'$$

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

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

$$= -6x^{3}(1-x^{2})^{2} + 2x(1-x^{2})^{3}$$

$$= -6x^{3}(1-2x+x^{4}) + 2x(1-3(x^{2})+3(x^{4})-x^{6})$$

$$= -6x^{3}(x^{4}-2x^{3}+1) + 2x(x^{6}+3x^{4}-3x^{2}+1)$$

$$= -6x^{3}(x^{4}-2x^{3}+1) + 2x(x^{6}+3x^{4}-3x^{4}+1)$$

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$$= -6x^{3}(x^{4}-2x^{4}+1) + 2x(x^{6}+3x^{4}+1)$$

$$= -6x^{4}(x^{4}+3x^{4}+1) + 2x(x^{4}+3x^{4}+1)$$

$$= -6x^{4}(x^{4}+3x^{4$$

If f is continuous on an open interval

I containing C and afferentiable,

except possible at C, ...

(From Myes f(x) is x=c resplay Sharp turn

Hole X

$$F(x) = \int (3x^4 - 5x^2 + x) dx$$

2041 7p1 760522005 Tours 25 m3005 term volt degree (2) 2662 volves F(x)

$$F(x)=3x^{5}-5x^{3}+x^{2}+c$$

$$Ans. = \frac{3}{5} - \frac{5}{3}$$

$$= \frac{9}{15} - \frac{25}{15} = -16$$

$$\int (2 \times +3)^{2} dx = \frac{9}{6} (cx^{4} + e) + e$$

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$$\int (2 \times +3)^{2} dx = \frac{1}{16} (2 \times +3)^{2} + e$$

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Sum=31