Day 5 - Review Extra Problems AK

Monday, April 22, 2019 10:03 PM

$$\int \int (6x^{2}-9x+3)dx$$

$$y = 3x^{3}-\frac{9}{3}x^{2}+3x+6$$

$$\int \frac{3}{4} \, u \, \frac{1}{9} \, du = \frac{3}{4} \cdot \frac{3}{3} \, u^{3/3} + c \implies y = \frac{1}{9} \, \left(\frac{3}{4} \times \frac{3}{3}\right)^{3/2} + c$$

$$\int \frac{3}{4} \, u \, \frac{3}{9} \, dx = \frac{3}{4} \cdot \frac{3}{4} \cdot$$

(5)
$$\int 4x^2 \cos^2(\partial x^3) dx$$

 $\int 4x^2 \cos^2(u) du$
 $\int \frac{2}{3} \cos^2(u) du$
 $y = \frac{2}{3} \cot(u) + (2x^3) + ($

$$\int \frac{12x-10}{3x^2-5x} dx \qquad u = 3x^2-5x$$

$$\int \frac{3x^2-5x}{3x^2-5x} dx \qquad \int \frac{3x^2-5x}{3x^2-5x} dx$$

(a)
$$\int \int \int \cos(\sqrt{x}) dx$$
 $u = \sqrt{x}$ $u = x'/2$ $\int u = \frac{1}{2} x'/2 dx$

$$\int \int \int \int \cos(u) du$$

$$\int \int \int dx dx$$

$$\int \int \int dx dx$$

$$\int \int \int dx dx$$

$$\int 20^{-1/2} \delta U = 40^{1/2} + C$$

$$y = 4 (3x^2 - 5x)^{1/2} + C$$

J2(6x-5) du U"> (6x5)

(18)
$$f'(x) = 6x-5$$
 $f(i) = y$
 $\int y' = \int (6x-5) dx$
 $y = 3x^2-5x+4$
 $y = 3(i)^2-5(i)+4$
 $y = -3+4$
 $y = 3x^2-5x+6$

(1)
$$f'(x) = 3x(x^2y)^3$$
 $f(a) = 7$
 $\int y' = \int 3x \cdot u^3 \frac{\partial u}{\partial x}$ $\int v = 2x \cdot dx$
 $\int y' = \int \frac{3}{3} u^3 du$ $\int 7 = \frac{3}{3} (a)^3 - y)^4 + c$
 $y = \frac{3}{3} u^4 + c$ $7 = \frac{3}{3} (x^2 - y)^4 + 7$

 $U = 2 \times 3$

 $\delta u = 6x^2 dx$

[y=3x-3x+6]	Y= 3 (x2-4)4	$\sqrt{z} = \frac{3}{8} (x^2 + y)^4 + 7$