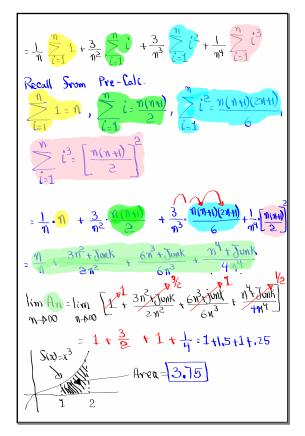
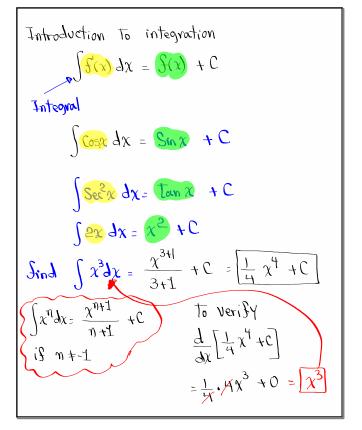


Feb 19-8:47 AM

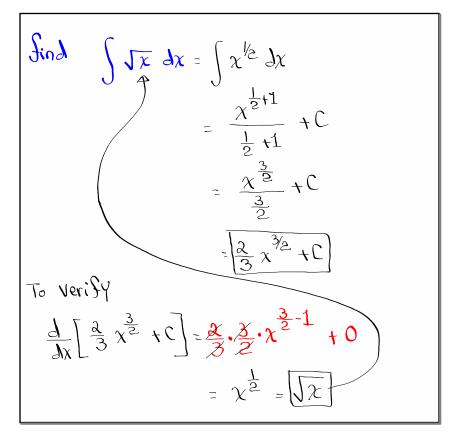
$$\begin{aligned} & \text{find the area below } f(x) = x^{3}, \text{ above} \\ & x = 0xis, \text{ from } x = 1 \quad \text{fo} \quad x = 2, \\ & \textbf{a} = 1 \quad , \text{ b} = 2 \\ & \Delta x = \frac{b-a}{n} = \frac{1}{n} \\ & \Delta x = \frac{b-a}{n} = \frac{1}{n} \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & 1x_{i} = x_{i} = a + i\Delta x \\ & \text{find the area } x_{i} = a + i\Delta x \\ & \text{find the area } x_{i} = a + i\Delta x \\ & \text{find the area } x_{i} = a + i\Delta x \\ & \text{find the area } x_{i} = 1 + \frac{a}{n} + \frac{3x_{i}^{2}}{n} + \frac{3x_{i}^{2}}{n} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}^{2}y + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}y^{2} + 3x_{i}y^{2} + y^{3} \\ & \text{find the area } x_{i}^{3} + 3x_{i}y^{2} + 3x_{i}y^{2} + \frac{3x_{i}^{2}}{n^{3}} + \frac{3x$$



May 2-8:53 AM



May 2-9:06 AM



May 2-9:13 AM

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$$\int f'(x) dx = f(x) + C \quad \text{IndeSinite Integral}$$

$$\int_{a}^{b} f'(x) dx = f(x) \Big|_{a}^{b} = f(b) - f(a)$$

$$\text{Definite integral}$$

$$\int_{1}^{2} x^{3} dx = \frac{x^{3+1}}{3+1} \Big|_{1}^{2} = \frac{1}{4} x^{4} \Big|_{1}^{2}$$

$$= \frac{1}{4} \Big[\frac{2^{4}}{4} - \frac{4}{4} \Big] = \frac{1}{4} \cdot 15 = 3 \cdot 15$$

Evaluate
$$\int_{1}^{4} \sqrt{\chi} \, d\chi$$

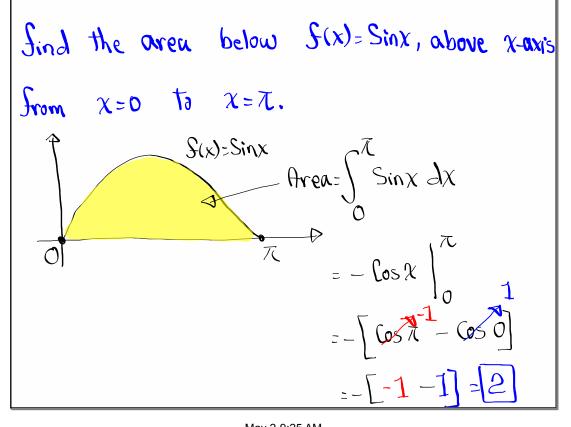
$$\int_{1}^{4} \sqrt{\chi} \, d\chi = \int_{1}^{4} \chi^{\frac{1}{2}} \, d\chi = \frac{\chi^{\frac{1}{2}+1}}{\frac{1}{2}+1} \Big|_{1}^{4}$$

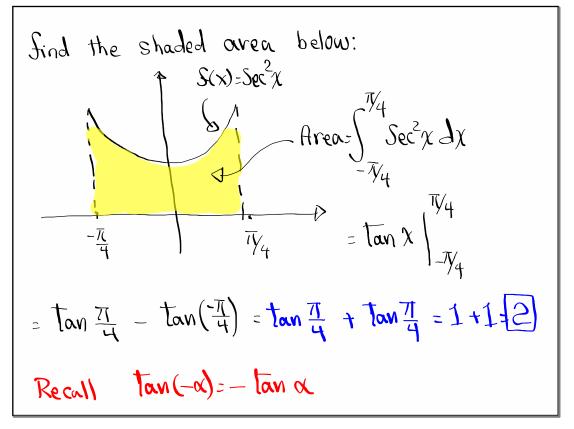
$$= \frac{\chi^{\frac{3}{2}}}{\frac{3}{2}} \Big|_{1}^{4} = \frac{2}{3} \chi^{\frac{3}{2}} \Big|_{1}^{4} = \frac{2}{3} \cdot \chi \sqrt{\chi} \Big|_{1}^{4}$$

$$= \frac{2}{3} \Big[4\sqrt{4} - 1\sqrt{1} \Big] = \frac{2}{3} \cdot \Big[8 - 1 \Big] = \frac{2}{3} \cdot 7 = \frac{14}{3} \Big]$$

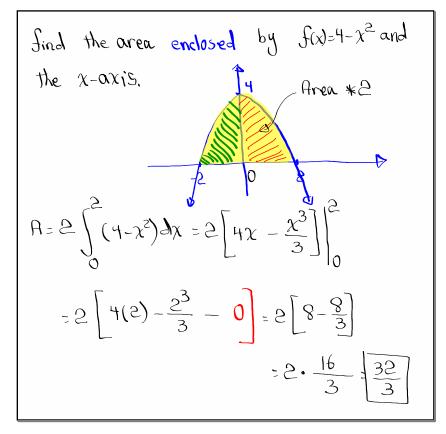
$$\int_{1}^{3} \sqrt{\chi} \, d\chi = \frac{14}{3}$$

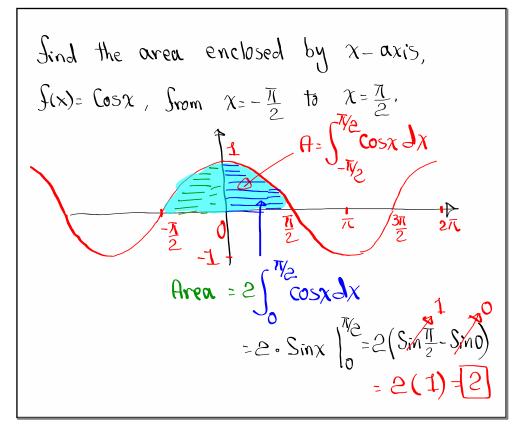
May 2-9:20 AM





May 2-9:31 AM





May 2-9:42 AM

