







(a) Calcule la signiente integral intefinide 
$$\int \sqrt{y} \ln(y) dy$$

$$\int f(x) \cdot g'(x) = f(x) \cdot g(x) \cdot \int f'(x) \cdot g(x)$$

$$f(y) = \ln(y) \quad f'(y) = \frac{1}{2} \quad g'(y) \cdot \frac{1}{2} \quad g'(y) = \frac{1}$$

$$\int 2x \cdot \cos(x^{2}) dx \qquad u = x^{2} dx$$

$$\int \cos(u) du = \frac{1}{2} = \sin(u) + c = \sin(x^{2}) + c,$$

$$\int \frac{\sqrt{x}}{2} = \sin(x^{2}) + c,$$

$$\int \sin(x^{2}) dx = 1 - \sin(x^{2}) = \frac{1}{2}$$

$$\int \cos(x^{2}) dx = 1 - \sin(x^{2}) = \frac{1}{2}$$

$$\int \cos(x^{2}) dx = 1 - \sin(x^{2}) = \frac{1}{2}$$

$$Sen(k^2) = \frac{4}{2}$$

$$K^2 = \frac{\pi}{6}$$

$$1 = \sqrt{3}$$