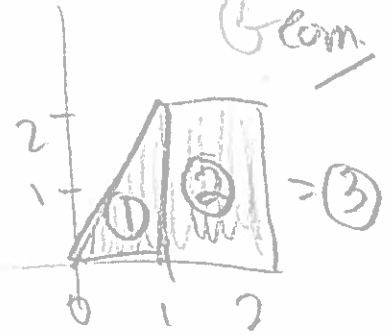
$$\int_0^1 2x\,dx + \int_1^2 2\,dx$$

Geom.



$$x^2\Big|_0^1 + 2x\Big|_1^2 \quad \text{FTC}$$

$$1 + 4 - 2 = 3$$

#1

calc

$$\text{fint}(2x, x, 0, 1) + \text{fint}(2, x, 1, 2) = 3$$

#2

$$\int_{-28}^{28} xe^{-8x^2}\,dx$$

$$\text{fint}(xe\wedge(-8x^2), x, -28, 28) = 0$$

$u = -8x^2$

$du = -16x\,dx$

$\frac{du}{-16} = x\,dx$

$u = -8(-28)^2$

$$\int_{-8(28)^2}^{-8(28)^2} e^u \frac{du}{-16}$$

$$\int_a^a f(u)\,du = 0$$