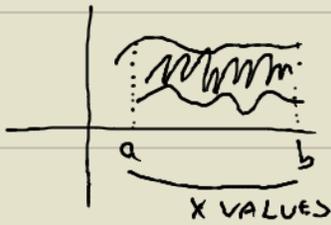


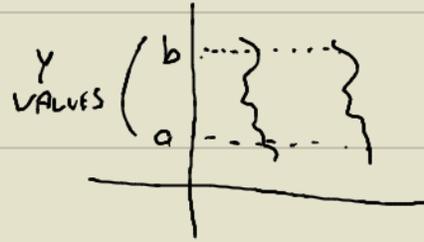
TYPE I



$$\int_a^b (\text{GRAPH ABOVE}) - (\text{GRAPH BELOW}) dx$$

HAVE X'S

TYPE II



$$\int_a^b (\text{GRAPH TO RIGHT}) - (\text{GRAPH TO LEFT}) dy$$

HAVE Y'S

1. $y = x^2 - 5x + 4$ $y = 2x - 2$

FIND POI'S

$$x^2 - 5x + 4 = 2x - 2$$

$$x^2 - 5x - 2x + 4 + 2 = 0$$

$$x^2 - 7x + 6 = 0$$

$$(x-1)(x-6) = 0$$

$$x-1=0 \quad x-6=0$$

$$x=1 \quad x=6$$

$$\int_1^6 (\text{ABOVE}) - (\text{BELOW}) dx$$

$$\int_1^6 (2x-2) - (x^2-5x+4) dx$$

$$\int_1^6 (2x-2-x^2+5x-4) dx$$

$$\int_1^6 (-x^2+7x-6) dx$$

2. $y = -x^2 + 4$ $y = 0$

$$-x^2 + 4 = 0$$

$$4 = x^2$$

$$\pm\sqrt{4} = x$$

$$\pm 2 = x$$

$$\int_{-2}^2 (\text{ABOVE}) - (\text{BELOW}) dx$$

$$\int_{-2}^2 (-x^2 + 4) - (0) dx$$

$$= \int_{-2}^2 (-x^2 + 4) dx$$