

Ex 1)
$$\sum_{i=1}^{60} 7 = 7 \cdot 60 = 420$$

Ex 2)
$$\sum_{i=1}^{220} i = \frac{n(n+i)}{2} = \frac{200(200ti)}{2} = 20(100)$$

Ex 3)
$$\sum_{j=1}^{25} j^{2} + j = \sum_{j=1}^{25} j^{2} + j^{2$$





Area of a Plane Region--see example 4, page 785. You can get a negative area when under xaxis, just change it to positive. bounded by いけん A = lim f(a + (<u>b - a</u>)i) (<u>b - a</u>) Things to remember: fis continuous X-qxis $n \rightarrow \infty$ i = 1n n vertical ligas number of rectongles X= e and X>b Ex 5) See number 17 on page 788. Find the area using rectangles: $f(x) = (.25)x^3$ 0=8 6 = Z 20 $= \sum_{i=1}^{\delta} f(\frac{1}{4}i)(\frac{1}{4})$ $\binom{o+(2-o)}{8}$ (2-0) - & + (+) 1 1024 5 i 102 62853

