HW: p402 1b,5,19,25,43
p414 17c,19c,21,23,25,33,37

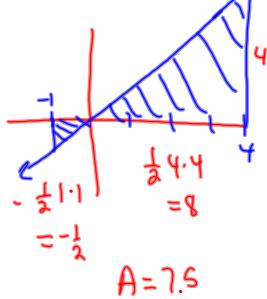
1b) $\xi(3j-1) = 5+8+11+14+17=55$ 5) $(1-2)+(2-3)+(3-4)-...+(49-50) = \xi(3)-10(10+1)$ 19) $4\xi(3)-2\xi(3)+\xi(3)+\xi(3)-2\xi(3)+\xi(3)-3\xi(3)-$

25)
$$\sum_{k=1}^{9} \frac{3k}{n} = \frac{3}{n} \sum_{k=1}^{9} k = \frac{3}{n} \frac{(n)(n+1)}{2} = \frac{3n+3}{2}$$
43)
$$\sum_{k=5}^{9} \frac{3^{k} - 3^{k-1}}{2} = \left(3^{5} - 3^{4}\right) + \left(3^{4} - 3^{5}\right) + \left(3^{4} - 3^{4}\right) + \left(3^{17} - 3^{4}\right)$$

$$-3^{4} + 3^{17}$$

p414 17c,19c,21,23,25,33,37

17c)
$$\int_{1}^{4} x dx = 7.5$$



19c)
$$\int_{-1}^{2} |2x-3| dx$$

$$A_{1} = \frac{1}{2} (\frac{2}{2})(5)$$

$$A_{2} = \frac{1}{2} (\frac{1}{2})(1)$$

$$= \frac{1}{4}$$

$$A = \frac{1}{4} = \frac{13}{2}$$

$$\int_{-1}^{2} |2x-3| dx = \frac{13}{4}$$

