#3
$$a_i = \frac{i^4}{3^i}$$
 $1-n$

Lower upper lim.

 $f(i)$
 $= \frac{1}{3^i}$
 $\frac{i^4}{3^i}$

#5 M2
$$-1 - 06 - 02 \quad 0.2 \quad 0.6 \quad 1$$

$$L = 0.4 \left(e^{-1} + e^{-0.6} + e^{-0.2} + e^{0.2} + e^{0.6} \right) = 1.91$$

$$U = 0.4 \left(e^{-0.6} + e^{-0.2} + e^{0.2} + e^{0.6} + e^{-0.2} \right) = 2.85$$

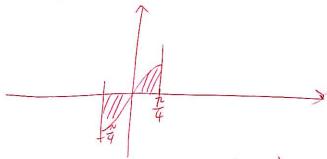
$$=7\int_{a}^{c}f(x)dx+5\int_{a}^{c}f(x)dx$$

$$=12\int_{a}^{c}f(x)dx$$

B

#6.
$$\int_{-\pi/4}^{\pi/4} \sin x \, dx$$

$$= \int_{-\frac{\pi}{4}}^{0} \sinh x \, dx + \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} \sinh x \, dx$$



same area, opposite sign