then
$$dv = 4x^3 dx$$

 $\frac{dv}{4x^3} = dx$
and $v^{x_4} = x$
 $v = 2^4 = 16$
 $v = (-2)^4 = 16$
 $v = (-2)^4 = 16$
 $v = (-2)^4 = 16$
but an integral $\int_a f(x) dx > 0$
so $\int_{-2}^2 x^{\frac{3}{2}} dx = 0$