Let R be the region bounded by $y = 8x$ and $y = x^4$. Using the **washer method**, set up the integral that gives the volume of the solid obtained by revolving this region about the line

$y = 0$

$y = -2$

$y = 17$

$x = 0$

$x = -1$

$x = 3$

Let R be the region bounded by $y = 8x$ and $y = x^4$. Using the **shell method**, set up the integral that gives the volume of the solid obtained by revolving this region about the line

$x = 0$

$$V = 2\pi \int_0^2 x\left(8x - x^4\right)\, dx$$

$x = -1$

$$V = 2\pi \int_0^2 (x+1)\left(8x - x^4\right)\, dx$$

$x = 3$

$$V = 2\pi \int_0^2 (3-x)\left(8x - x^4\right)\, dx$$