

$$(a) \frac{x^2 + y^2 - 8}{2} = 0$$

$$= \pi \int \frac{x^2 + y^2 - 8}{2} dx$$

$$= \pi \left[\frac{x^3}{3} + \frac{y^3}{3} - 8x \right]$$

=

$$(b) (i) \frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

NOTE $\because 0.75 = \frac{3}{4}$

$$(ii) \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} = \frac{1}{64}$$

$$(c) (i) x = \frac{(0) - 2}{(0) + 2}$$

$$= \frac{-2}{+2}$$

$$x = -1$$