$$|x| = x^{2} - 2$$
 $|x| = x^{2} - 2$ 
 $|x| = x^{2} - 2 = 7 |x^{2} - x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} - x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
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 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 
 $|x| = x^{2} - 2 = 7 |x^{2} + x - 2 = 0$ 

$$A = \begin{cases} 2 & (|X| - (|X^2 - z|)) dx \end{cases}$$

$$= \int_{-2}^{0} - x - x^{2} + 2 dx + \int_{0}^{2} x - x^{2} + 2 dx$$

$$= \begin{bmatrix} -\frac{\chi^2}{2} - \frac{\chi^3}{3} + 2\chi \end{bmatrix} \begin{bmatrix} 0 \\ -\frac{\chi^2}{2} - \frac{\chi^3}{3} + 2\chi \end{bmatrix} \begin{bmatrix} 2 \\ 0 \end{bmatrix}$$

$$= \left[ \underbrace{-23}_{2} - \underbrace{-123}_{3} + 2(-2) \right] + \left[ \underbrace{-23}_{2} - \underbrace{-23}_{3} + 2(2) \right]$$

$$= \frac{10}{3} + \frac{10}{3} = \frac{20}{3} 0^2$$

Problema Z  $y=x^2$ ;  $y=4x-x^2$ , x=4x2 = 4x -x2 2x2-4x=0 2(x2-2x)=0 7×(X-2)=0 =7 x=0 y x=2 Para Resolver el problema se usará el método de Cascavones cilindricos o avandolas 2M (4-x)(4x-x²-x²) dx  $= 2\pi \int_{0}^{2} (4-x)(4x-2x^{2}) dx = 2\pi \int_{0}^{2} |6x-8x^{2}-4x^{2}+2x^{3} dx$  $= 2\pi \left[ 8x^{2} - 8x^{3} - \frac{4}{3}x^{3} + \frac{4}{2} \right]_{0}^{2}$   $= 2\pi \left[ 8x^{2} - 9x^{3} + \frac{4}{2} \right]_{0}^{2} = 2\pi \left[ 8(x)^{2} - 9(x)^{2} + \frac{(x)^{2}}{2} \right] - [0]$   $= 2\pi \left[ 32 - 32 + 8 \right]$   $= \frac{16\pi}{3}$