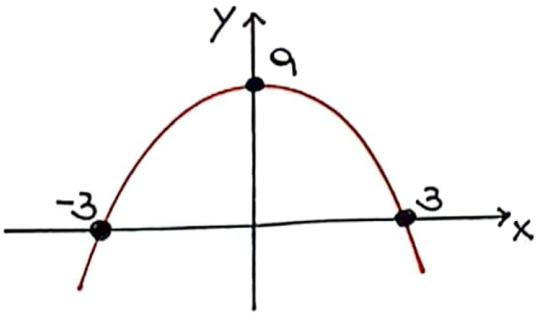
AULA PRÁTICA 2

01. $y = 9 - x^2$



$9 - x^2 = 0$

$9 = x^2$

$x^2 = 9 \rightarrow x = \pm\sqrt{9}$

$\begin{cases} x = -3 \\ x = 3 \end{cases}$

$\text{ÁREA} = \frac{2}{3} \cdot (6) \cdot (9)$

$\boxed{\text{ÁREA} = 36\,m^2}$

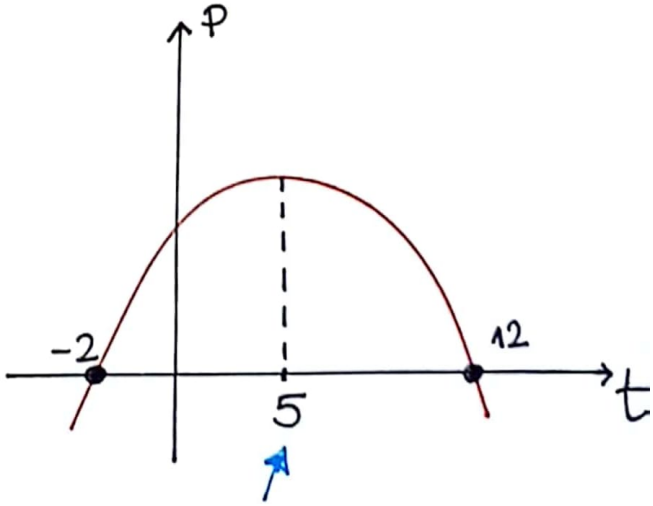
02. $P(t) = -t^2 + 10t + 24$

$-t^2 + 10t + 24 = 0$

$t = \frac{-(10) \pm \sqrt{(10)^2 - 4(-1)(24)}}{2(-1)}$

$t = \frac{-10 \pm \sqrt{196}}{-2}$

$t = \frac{-10 \pm 14}{-2} \quad \begin{cases} t = -2 \\ t = 12 \end{cases}$



III

RESPOSTA: C

03. $i = 0{,}8\% = \frac{0{,}8}{100} = 0{,}008$

$$M = C(1+i)^n$$

$$F = C(1+i)^n$$

$$200000 = 100000\,(1+0{,}008)^n$$

$$2 = 1{,}008^n$$

$$\log 2 = \log 1{,}008^n$$

$$\log 2 = n \cdot \log 1{,}008$$

$$\frac{\log 2}{\log 1{,}008} = n \longrightarrow n = \frac{\log 2}{\log 1{,}008} = \frac{0{,}30}{0{,}003} = \boxed{100 \text{ MESES}}$$

RESPOSTA