

$$2 \cos^2(v) - \sin(v) = 2$$

$$\Leftrightarrow 2(1 - \sin^2(v)) - \sin(v) = 2$$

$$\Leftrightarrow 2\sin^2(v) + \sin(v) = 0 \Leftrightarrow \sin(v) = 0 \text{ el. } -\frac{1}{2}$$

d)

$$\sin(v) = 0 \Leftrightarrow v = \pi n$$

$$\sin(v) = \frac{-1}{2} \Leftrightarrow v = \frac{-\pi}{6} + 2\pi n \text{ el. } v = \pi - (\frac{-\pi}{6}) + 2\pi n$$

$$n \in \mathbb{Z}$$