

0.6
4

$$\begin{cases} ax + 2y = 3 \\ x + 2ay = 2 + a \end{cases} \quad / \cdot a$$

$$\begin{cases} a^2x + 2ay = 3a \\ x + 2ay = 2 + a \end{cases}$$

$$a^2x - x = 2a + 2$$

$$x(a^2 - 1) = 2a + 2$$

$$x = \frac{2(a+1)}{a^2-1} = \frac{2(a+1)}{(a+1)(a-1)} = \frac{2}{a-1} \quad a \neq \pm 1$$

η) εκτός κλίση π/3)

$$a \cdot \frac{2}{a-1} + 2y = 3$$

$$2y = 3 - \frac{2a}{a-1}$$

$$2y = \frac{3a+3-2a}{a-1} = \frac{a+3}{a-1}$$

$$y = \frac{a+3}{2(a-1)}$$

$$\left| \frac{2}{a-1} \right| \leq 1 \quad \text{π.π.}$$

$$\left| \frac{a+3}{2(a-1)} \right| \leq 1 \quad \text{π.π.}$$

$$-1 \leq \frac{2}{a-1} \leq 1 \quad \text{π.π.}$$

$$-1 \leq \frac{a+3}{2(a-1)} \leq 1 \quad \text{π.π.}$$

$$0 \leq \frac{2}{a-1} + 1 \quad \text{π.π.} \quad \frac{2}{a-1} - 1 \leq 0$$

$$0 \leq \frac{a+3}{2(a-1)} + 1 \quad \text{π.π.} \quad \frac{a+3}{2(a-1)} - 1 \leq 0$$

$$0 \leq \frac{2+a-1}{a-1} \quad \frac{2-a+1}{a-1} \leq 0$$

$$0 \leq \frac{a+3+2a+2}{2(a-1)} \quad \frac{a+3-2a+2}{2(a-1)} \leq 0$$

$$0 \leq \frac{a+3}{a-1} \quad \frac{3-a}{a-1} \leq 0$$

$$0 \leq \frac{3a+5}{2(a-1)} \quad \frac{-a+1}{2(a-1)} \leq 0$$

