

$$\textcircled{7} \quad \operatorname{tg} \alpha = \frac{3}{4}$$

$$\sin^2 \alpha + \cos^2 \alpha = 1$$

$$\operatorname{tg} \alpha = \frac{\sin \alpha}{\cos \alpha} \Leftrightarrow \sin \alpha = \cos \alpha \operatorname{tg} \alpha$$

Per tant, si substituïm en la 1a equació:

$$\left(\frac{3}{4} \cos \alpha\right)^2 + \cos^2 \alpha = 1$$

$$\frac{9}{16} \cos^2 \alpha + \cos^2 \alpha = 1$$

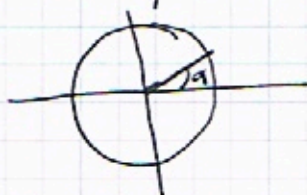
$$\frac{25}{16} \cos^2 \alpha = 1 \Leftrightarrow \cos^2 \alpha = \frac{16}{25} \Rightarrow \cos \alpha = \pm \frac{4}{5}$$

$$\boxed{\text{si } \cos \alpha = \frac{4}{5}}$$

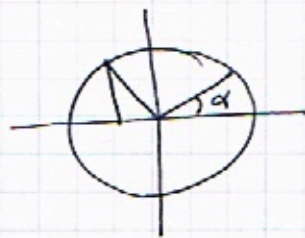
$$\text{a) } \sin \alpha = \frac{3}{4} \cdot \frac{4}{5} = \frac{3}{5}$$

$$\text{b) } \cos \alpha = \frac{4}{5}$$

$$\text{c) } \sin(90^\circ - \alpha) = \cos \alpha = \frac{4}{5}$$



$$\text{d) } \cos(90^\circ + \alpha) = \\ = -\sin \alpha = -\frac{3}{5}$$



$$\text{e) } \cos(180^\circ - \alpha) = -\cos \alpha = -\frac{4}{5}$$

