(2) $\begin{cases} 4x^2+9y^2=36 \\ y+3=m(x-3) \end{cases}$ $\begin{cases} 4x^2+9y^2=36 \\ y=mx-3 \end{cases}$

$\begin{cases} 4x^2+9(mx-3)^2=36 \\ y=\dots \end{cases}$

$4x^2+9(m^2x^2-6mx+9)=36$

$4x^2+9m^2x^2-36mx+81=36$

$x^2\underbrace{(9m^2+4)}_{a}\underbrace{-36mx}_{b}\underbrace{+45}_{c}=0$

$\Delta=b^2-4ac$

$(36m)^2-4(9m^2+16)(45)=0$

$2916m^2-1620m^2+720=0$

$29{,}6m^2+720=0$

$m^2=\pm\sqrt{\frac{720}{2916}}$ $\quad m=\pm\frac{\sqrt{5}}{3}$