

① Να απλοποιήσετε την παράσταση:

$$\frac{y^2 - 3y + y^2 - 9}{4y^2 - 9}$$

ΛΥΣΗ

$$\frac{\overbrace{y^2 - 3y} + \overbrace{y^2 - 9}}{4y^2 - 9}$$

=

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

=

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

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

↙
②y

↓
③

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

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