Given:

Vega (VV) = 0.25
Initial implied volatility (σinitial σ initial) = 20% = 0.20
New implied volatility (σnew σ new) = 25% = 0.25

Calculate the change in implied volatility (Δσ):

$\Delta\sigma = \sigma\text{new} - \sigma\text{initial}$
$\Delta\sigma = 0.25 - 0.20$
$\Delta\sigma = 0.05$

Calculate the change in the price of the put option (ΔOption Price):

$\Delta\text{Option Price} = V \times \Delta\sigma$
$\Delta\text{Option Price} = 0.25 \times 0.05$
$\Delta\text{Option Price} = 0.0125$