

Misconception- Mark Hayden

$$0.22\text{M acid} \times .1\text{L} = 0.022\text{ mol acid}$$

$$0.1\text{M base} \times .1\text{L} = 0.01\text{ mol base}$$

0.012 mol acid remaining

$$1 \times 10^{-4}\text{M} \cdot .1\text{L} = 1 \times 10^{-5}\text{ mol acid}$$