Q1

$r_{eff} = 3\% \implies (1 + r_{m/m})^{12} = 103\% \implies r_{m/m} + 1 = 1.002466 \implies r_{m/m} = 0.2466\%$

Q2

$r_{d/y} = \frac{1.1\%}{252} = 0.004365\% \implies r_{eff} = (1 + r_{d/y})^{252} - 1 = 1.01106 - 1 = 1.106\%$

Q3

$(1 + r_{q/q})^4 = r_{y/y} = e^{r_{cc}} \implies r_{cc} = 7.921\%/\text{yr}$

Q4

$(1 + r_{m/m})^3 = r_{q/q} = e^{r_{cc}} \implies r_{cc} = 6.822\%/\text{quarter}$

Q5

$r_{m/q} = 0.6\% \implies (1 + r_{m/q})^{24} = 1.1544$