1 A line, L, has equation $4x + 5y = 9$. Points A and B have coordinates $(-6, 7)$ and $(1, 9)$ respectively. Find the equation of the line parallel to L which passes through the mid-point of AB. [3]

2 Solve the equation $\log_5(8x + 7) - \log_5 2x = 2$. [3]