9 Solve the equation $2\log_p y + 10\log_y p - 9 = 0$, where p is a positive constant, giving y in terms of p. [5]

10 Given that $65 \times {}^{n}\mathrm{C}_5 = 2(n-1) \times {}^{n+1}\mathrm{C}_6$, find the value of n. [3]