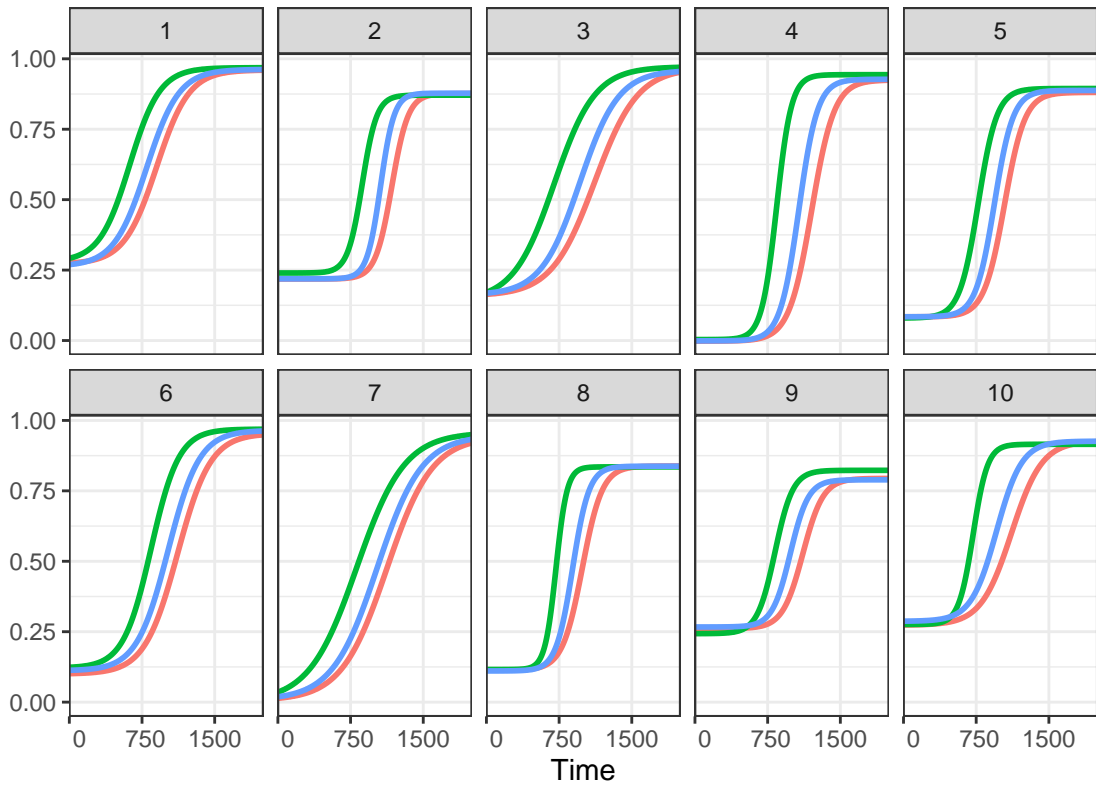Representative Curves, Random Delay