

8. From $\Delta T = \Delta T_0 e^{-At}$, we have $\Delta T/\Delta T_0 = e^{-A_1 t_1}$ (before insulation) and $\Delta T/\Delta T_0 = e^{-A_2 t_2}$ (after insulation). Thus the ratio is given by $A_2/A_1 = t_1/t_2 = 1/2$.