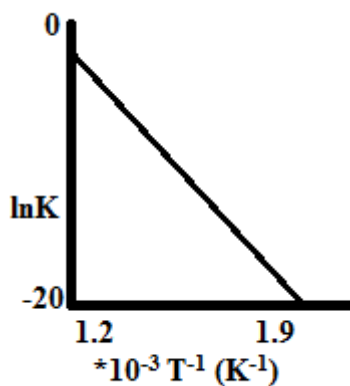


Answer Key: Arrhenius Equation Problems

1. a)



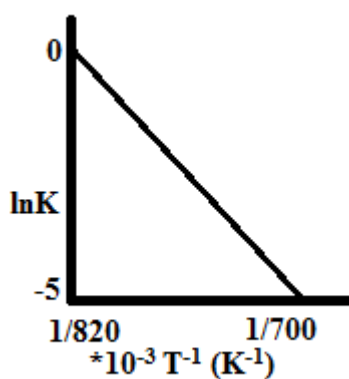
b) $m = -22\,670$ (using first 2 points) $m = -21836$ K (using first and last point)

$E_A = 188\,500$ J/mol (using first two points slope)

c) - find y-intercept then isolate

$-\ln K = -E_A/RT + \ln A$ (isolate and calculate for A)

2.



$E_A = 164.273$ kJ/mol (using first two points)

$E_A = 177$ kJ/mol (using 1st and last point)

3. $E_A = 241\,400$ J/mol (using first two points)