

$$k = A e^{-E_a/RT}$$

make E_a the subject.

$$\frac{k}{A} = e^{-E_a/RT}$$

$$\ln \frac{k}{A} = -\frac{E_a}{RT}$$

$$\ln \frac{A}{k} = \frac{E_a}{RT}$$

$$\ln A = -\ln \frac{1}{A}$$

$$\ln A^n = n \ln A$$

$$RT \ln \frac{A}{k} = E_a$$