

In[2]:= **v = - Exp[-r] / r + c / r^2**

Out[2]=
$$\frac{c}{r^2} - \frac{e^{-r}}{r}$$

In[18]:= **Plot[{v /. {c → .1}, v /. {c → .2}, v /. {c → .3}, , v /. {c → .4}, , v /. {c → .5}},
{r, 0, 2}, PlotRange → {-2, 4}]**

