

```
In[91]:= k = 1.38 * 10^(-23);
```

```
ε = 10^-23;
```

$$P_{-\epsilon}[T_-] := \frac{\text{Exp}\left[\frac{-\epsilon}{k \star T}\right]}{1 + \text{Exp}\left[\frac{-\epsilon}{k \star T}\right] + \text{Exp}\left[\frac{\epsilon}{k \star T}\right]}$$

$$PS_{-\epsilon}[T_-] := 1 - \text{Exp}\left[\frac{-\epsilon}{k \star T}\right]$$

```
In[99]:= Plot[{P_{-ε}[T], PS_{-ε}[T]}, {T, -10, 10},  
PlotRange → {-0.5, 1.2}, AxesLabel → Automatic, PlotLabels → Automatic]
```

