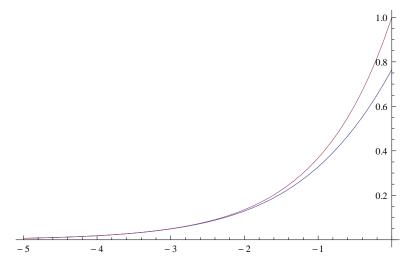
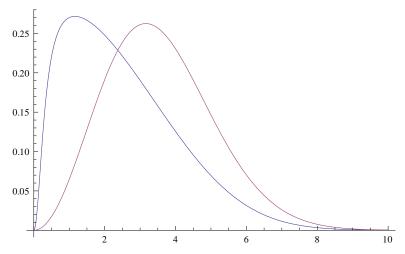
```
\begin{split} &\mathbf{f}[\mathbf{x}_{-}] := \mathrm{Integrate}[\mathbf{y}^{2}/(\mathrm{Exp}[\mathbf{y}^{2}-\mathbf{x}]-1), \{\mathbf{y}, 0, \mathrm{Infinity}\}] \\ &\mathbf{f}[\mathbf{x}] \\ &\frac{1}{4}\sqrt{\pi} \ \mathrm{PolyLog}\left[\frac{3}{2}, \, \mathrm{e}^{\mathbf{x}}\right] \\ &\mathrm{Plot}\left[\left\{-\mathrm{PolyLog}\left[\frac{3}{2}, \, -\mathrm{Exp}[\mathbf{x}]\right], \, \mathrm{Exp}[\mathbf{x}]\right\}, \, \{\mathbf{x}, -5, 0\}, \, \mathrm{PlotRange} \rightarrow \mathrm{All}\right] \end{split}
```



$$\begin{split} kT &= 10 \text{; } n = -0.01 \text{; } Plot\left[\left\{v^2 / \left(\text{Exp}\left[v^2 / kT - n\right] - 1\right) / \right. \\ &\quad \text{NIntegrate}\left[V^2 / \left(\text{Exp}\left[V^2 / kT - n\right] - 1\right), \left\{V, 0, \text{Infinity}\right\}\right], \\ &\quad \text{v^2 Exp}\left[-v^2 / kT\right] / \text{NIntegrate}\left[V^2 \text{Exp}\left[-V^2 / kT\right], \left\{V, 0, \text{Infinity}\right\}\right], \\ &\quad \text{v, 0, 10}, \text{ PlotRange } \to \text{All} \end{split}$$



```
kT = 10; n = -0.01; Plot[{v^2 / (Exp[v^2 / kT - n] + 1) / (Exp[v^2 / kT - n] + 1) / (Exp[v^2 / kT - n] + 1)}
   \label{eq:normalization} {\tt NIntegrate}\left[{\tt V ^2 / (Exp[\ {\tt V ^2 / kT - n}] + 1), \{{\tt V, 0, Infinity}}\right],
 \label{eq:continuous_v^2_Exp[-V^2/kT]/NIntegrate[V^2_Exp[-V^2/kT], {V, 0, Infinity}]},
\{v, 0, 10\}, PlotRange \rightarrow All]
```

