FullSimplify [Integrate [64/Pi^2 Cos[st] Exp[-bs]s^2 Exp[-4s^2/Pi], {s, 0, Infinity}]]

núm··· coseno exponencial

exponencial

Out = =
$$\frac{1}{8} e^{-\frac{1}{16} \pi t (2 i b+t)} \left(-8 b e^{\frac{1}{16} \pi t (2 i b+t)} + e^{\frac{b^2 \pi}{16}} (8 + \pi (b - i t)^2) - e^{\frac{b^2 \pi}{16}} \right)$$

$$e^{\frac{b^2 \pi}{16}} \left(8 + \pi (b - i t)^2 \right) \text{Erf} \left[\frac{1}{4} \sqrt{\pi} (b - i t) \right] + e^{\frac{1}{16} b \pi (b + 4 i t)} \left(8 + \pi (b + i t)^2 \right) \text{Erfc} \left[\frac{1}{4} \sqrt{\pi} (b + i t) \right] \right)$$

In[•]:= G[b_, t_] =

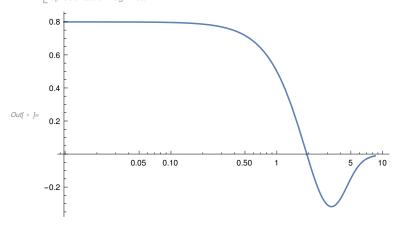
FullSimplify [Integrate [32/Pi^2 Exp[I st] Exp[-bs] s^2 Exp[-4s^2/Pi], {s, 0, Infinity}]]

núm··· e··· núm··· exponencial exponencial

Out =
$$\frac{1}{8} \left(-4 \text{ b} + 4 \text{ i} \text{ t} + e^{\frac{1}{16} \pi (b-i \text{ t})^2} \left(8 + \pi (b-i \text{ t})^2 \right) \text{Erfc} \left[\frac{1}{4} \sqrt{\pi} (b-i \text{ t}) \right] \right)$$

In[•]:= LogLinearPlot [R[1, t], {t, 0, 10}]

representación log lineal



In[•]:= LogLinearPlot [Abs[G[0, t]], {t, 0, 10}]

representación log ··· valor absoluto

