

Lista de Valores de lucros total para cada margem de lucro percentual:

```
In[1]:= ListaLucroTotal = {265229.08999999997, 572115.29999999999,
  825151.3, 1048144.60000000001, 1314299.80000000003, 1444296.90000000001,
  1288803.0, 1675737.79999999998, 1704671.80000000003, 1742594.6, 2002088.2,
  1539299.29999999996, 1503936.5, 1680540.5, 1438948.59999999999, 1599596.5,
  1649879.0, 1696750.1, 1936889.59999999999, 1437794.09999999999, 1503360.0,
  1194288.29999999998, 1259870.8, 1238898.90000000001, 1371181.0, 1177971.1,
  1610306.1, 1003514.80000000002, 730176.89999999999, 1095933.8};
ListaLucroTotal = Transpose[{Table[x, {x, 10, 300, 10}], ListaLucroTotal}];
```

Ajuste dos pontos acima para uma distribuição log - normal

```
model = A * PDF[LogNormalDistribution[μ, σ], x]
(*Densidade de Probabilidade log-normal*)
fit = FindFit[list, model, {A, μ, σ}, x]
modelf = Function[{x}, Evaluate[model /. fit]]
Plot[modelf[x], {x, 0, 300}, Epilog -> {PointSize[Medium], Red, Map[Point, list]},
  PlotRange -> All, AxesLabel -> {"Lucro Percentual", "Lucro Total Acumulado"}]
```

$$A e^{-\frac{(-\mu + \log[x])^2}{2\sigma^2}}$$

$$\sqrt{2\pi} x \sigma$$

{A -> 14570.7, μ -> 5.94613, σ -> 1.80356}

Function[{x}, $\frac{3222.99 e^{-0.153712 (-5.94613 + \log[x])^2}}{x}$]

