

```
In[10]:= data = {{3, 8}, {4, 9.5}, {5, 10}, {6, 13}, {7, 17.6}, {8, 28}}
varListPlot = ListPlot[data]
```

```
function := a * 2^(b * x)
foundVars = FindFit[data, function, {a, b}, {x}]
```

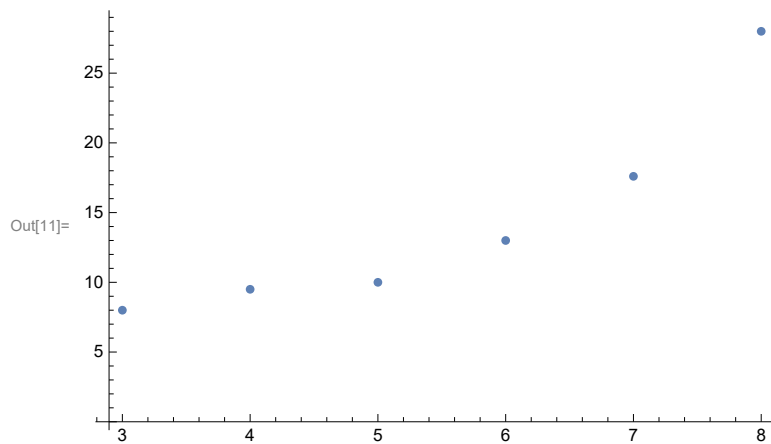
```
foundFunction := function /. foundVars
foundFunction
```

```
plotFunction = Plot[foundFunction, {x, 0, 8}]
```

```
Show[varListPlot, plotFunction]
```

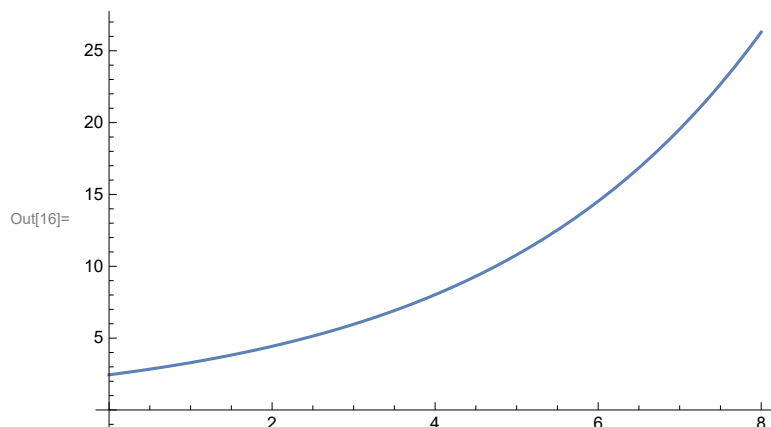
```
foundFunction /. x -> 512
```

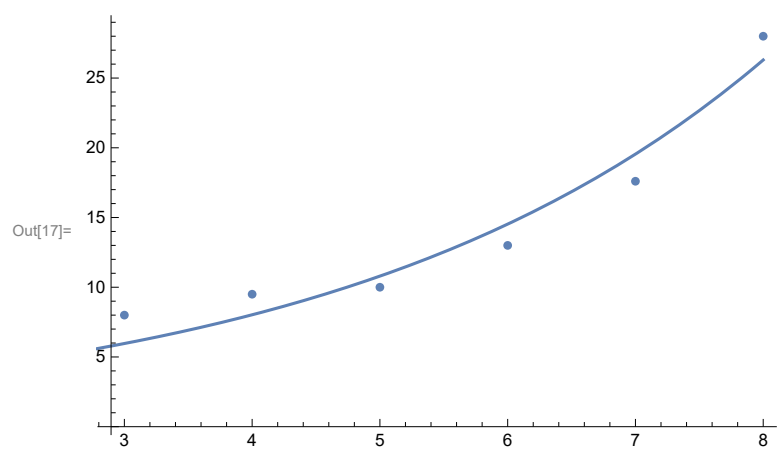
```
Out[10]= {{3, 8}, {4, 9.5}, {5, 10}, {6, 13}, {7, 17.6}, {8, 28}}
```



```
Out[13]= {a -> 2.44808, b -> 0.42815}
```

```
Out[15]= 2.44808 * 2^(0.42815 x)
```





Out[18]=  $2.39017 \times 10^{66}$