

```
In[19]:= Tx[c_, v_, l_, d_] := FindRoot[ $\frac{c v l}{2 T x} - \sinh\left[\frac{c v d}{2 T x}\right] = 0$ , {Tx, 0.01}];
Ty[c_, v_, l_, d_] := l c v;
tension[c_, v_, l_, d_] :=  $\sqrt{(Tx /. Tx[c, v, l, d])^2 + Ty[c, v, l, d]^2}$ ;
```

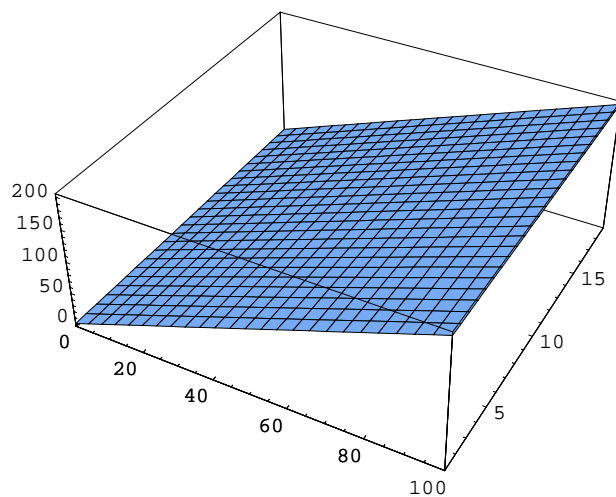
```
In[23]:= Plot3D[tension[0.1, v, 20, d], {v, 0, 100}, {d, 1, 19}]
```

FindRoot::cvmit : Failed to converge to the requested accuracy or precision within 100 iterations. More...

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General::stop : Further output of FindRoot::cvmit will be suppressed during this calculation. More...



```
Out[23]= - SurfaceGraphics -
```