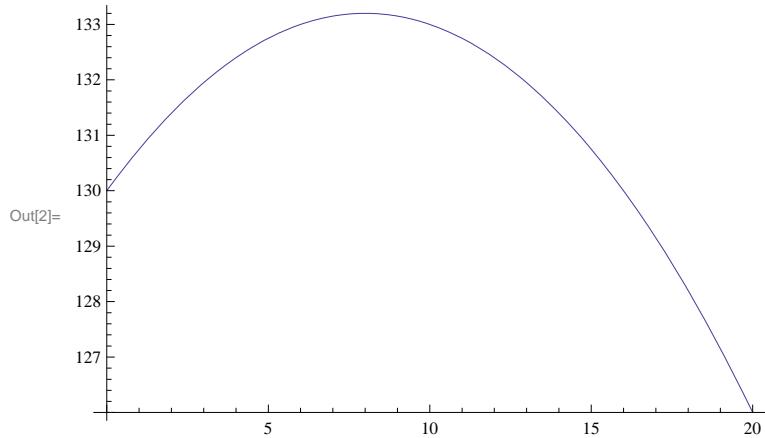


```
In[1]:= y = (0.65 - 0.01 * x) * (200 + 5 * x) - 0.45 * x
```

```
Out[1]= -0.45 x + (0.65 - 0.01 x) (200 + 5 x)
```

```
In[2]:= Plot[y, {x, 0, 20}]
```



```
In[3]:= dydx = D[y, x]
```

```
Out[3]= -0.45 + 5 (0.65 - 0.01 x) - 0.01 (200 + 5 x)
```

```
In[4]:= s = Solve[dydx == 0, x]
```

```
Out[4]= {{x → 8.}}
```

```
In[5]:= y /. s
```

```
Out[5]= {133.2}
```