```
> restart;
> #h is health, b is brain;
  #brawn intensive activity for men
  f1:=(h,b)->2.2+.1*h+.8*b;
```

$$f1 := (h, b) \rightarrow 2.2 + 0.1\,h + 0.8\,b \quad \textbf{(1)}$$

```
> #schooling intensive activity
  f2:=(h,b)->1.5+1*h+.1*b;
```

$$f2 := (h, b) \rightarrow 1.5 + h + 0.1\,b \quad \textbf{(2)}$$

```
> #brawn intensive activities for women
  f3:=(h,b)->2.2+.1*h+.1*b;
```

$$f3 := (h, b) \rightarrow 2.2 + 0.1\,h + 0.1\,b \quad \textbf{(3)}$$

```
> mx:=(x2,x3)->piecewise(x2<x3,x3,x2);
```

$$mx := (x2, x3) \rightarrow piecewise(x2 < x3, x3, x2) \quad \textbf{(4)}$$

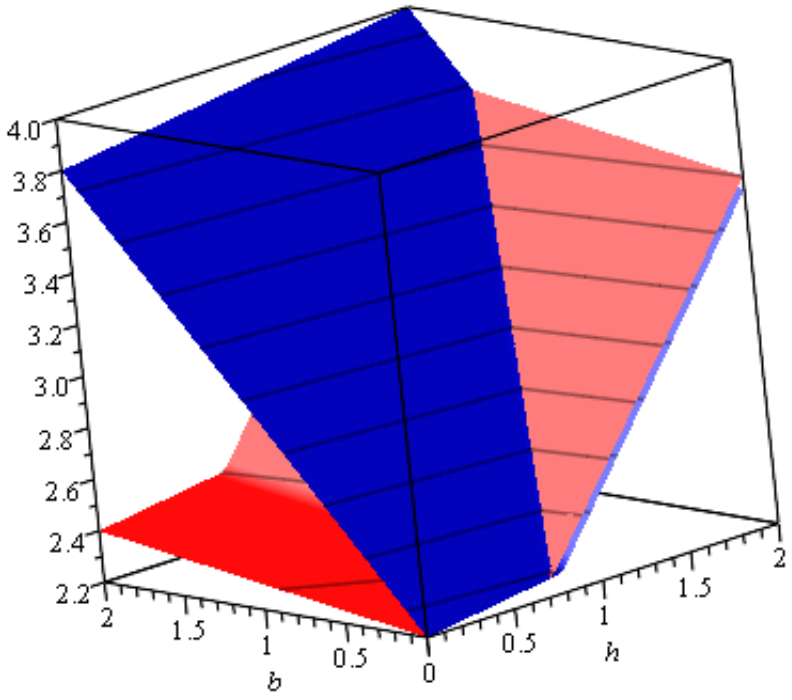
```
> #wage surface for women;
  f4:=(h,b)->mx(f3(h,b),.05+f2(h,b));
```

$$f4 := (h, b) \rightarrow mx(\,f3(h, b), 0.05 + f2(h, b)\,) \quad \textbf{(5)}$$

```
> #wage surface for men;
  f5:=(h,b)->mx(f1(h,b),f2(h,b));
```

$$f5 := (h, b) \rightarrow mx(\,f1(h, b), f2(h, b)\,) \quad \textbf{(6)}$$

```
> plot3d('[f4(h,b),f5(h,b)]','h'=0..2,'b'=0..2,style=patchcontour,
  axes=boxed,color=[red,blue]);
```


4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2
1.5
1
0.5
0
b
0.5
1
1.5
2
h