

## Probleme 1

**Bäcker ( Sydsaeter S. 719 ff) Haftendorn2013**

$x$ =Anzahl der AnnaKuchen in Dutzend( 1 dz=12 Stück)  $y$ =Anzahl der BertaKuchen in dz

Zutaten-Angaben in kg Gewinn Anna 20 €/dz Berta 30 €/dz

Mehl **me**:= $3 \cdot x + 6 \cdot y = 150$  ▶  $3 \cdot x + 6 \cdot y = 150$  solve(**me**, $y$ ) ▶  $y = \frac{-(x-50)}{2}$

Zucker **zu**:= $x + \frac{1}{2} \cdot y = 22$  ▶  $x + \frac{y}{2} = 22$  solve(**zu**, $y$ ) ▶  $y = 44 - 2 \cdot x$

Butter **bu**:= $x + y = 27 + \frac{1}{2}$  ▶  $x + y = \frac{55}{2}$  solve(**bu**, $y$ ) ▶  $y = \frac{55}{2} - x$

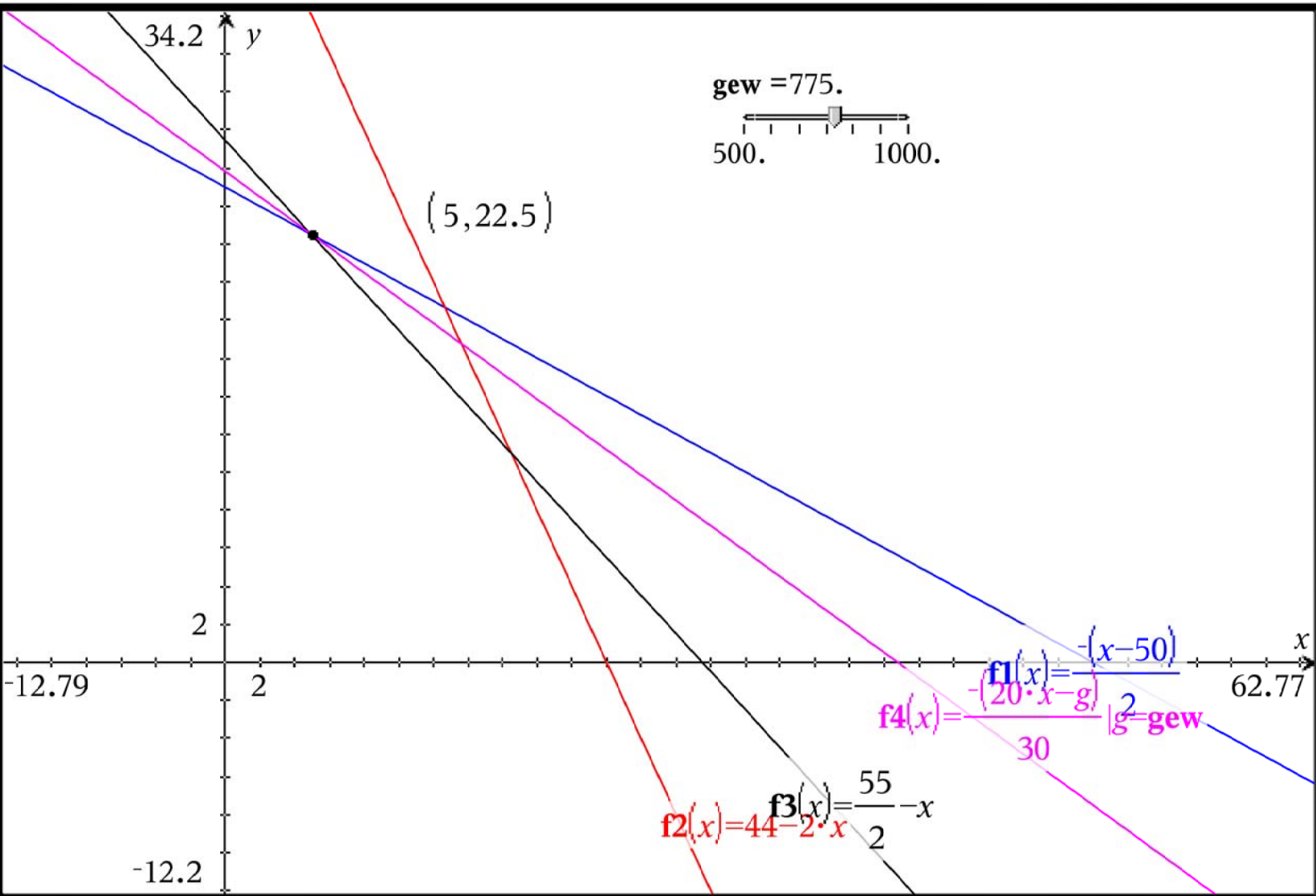
Gewinn **ge**:= $g = 20 \cdot x + 30 \cdot y$  ▶  $g = 20 \cdot x + 30 \cdot y$

solve(**ge**, $y$ ) ▶  $y = \frac{-(20 \cdot x - g)}{30}$

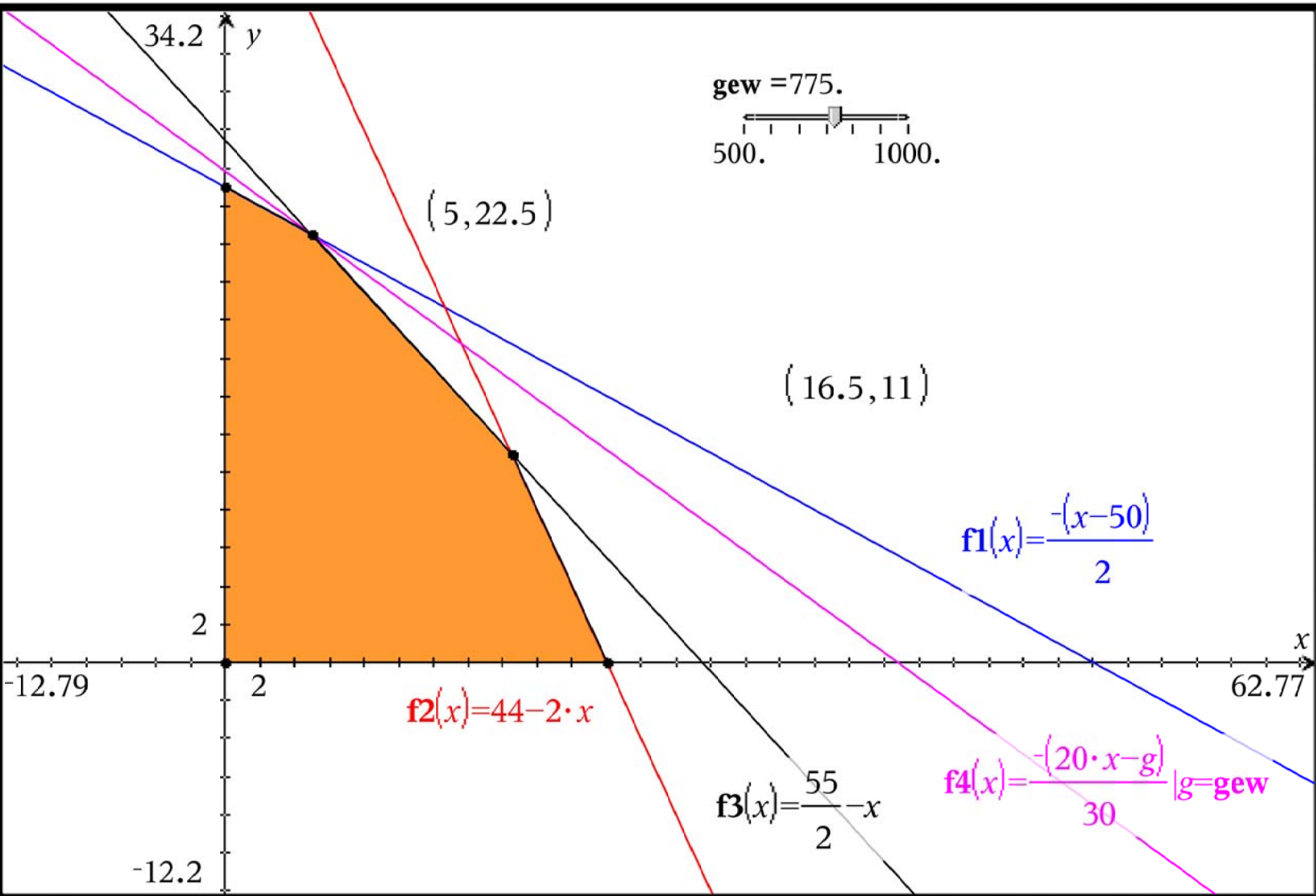
**lo**:=solve({**me**,**bu**}, $x,y$ ) ▶  $x = 5$  and  $y = \frac{45}{2}$

**ge|lo** ▶  $g = 775$

1.1



1.2



1.3

## Probleme 2

**Bäcker ( Sydsaeter S. 719 ff)**

$x$ =Anzahl der AnnaKuchen in Dutzend( 1 dz=12 Stück)  $y$ =Anzahl der BertaKuchen in dz

Zutaten-Angaben in kg Gewinn Anna 20 €/dz Berta 30 €/dz

Mehl **me**:= $3 \cdot x + 6 \cdot y = 150$  solve(**me**, $y$ )

Zucker **zu**:= $x + \frac{1}{2} \cdot y = 22$  solve(**zu**, $y$ )

Butter **bu**:= $x + y = 27 + \frac{1}{2}$  solve(**bu**, $y$ )

Gewinn **ge**:= $g = 20 \cdot x + 30 \cdot y$

solve(**ge**, $y$ )

**lo**:=solve({**me**,**bu**}, $x$ , $y$ )

**ge|lo**

□

2.1