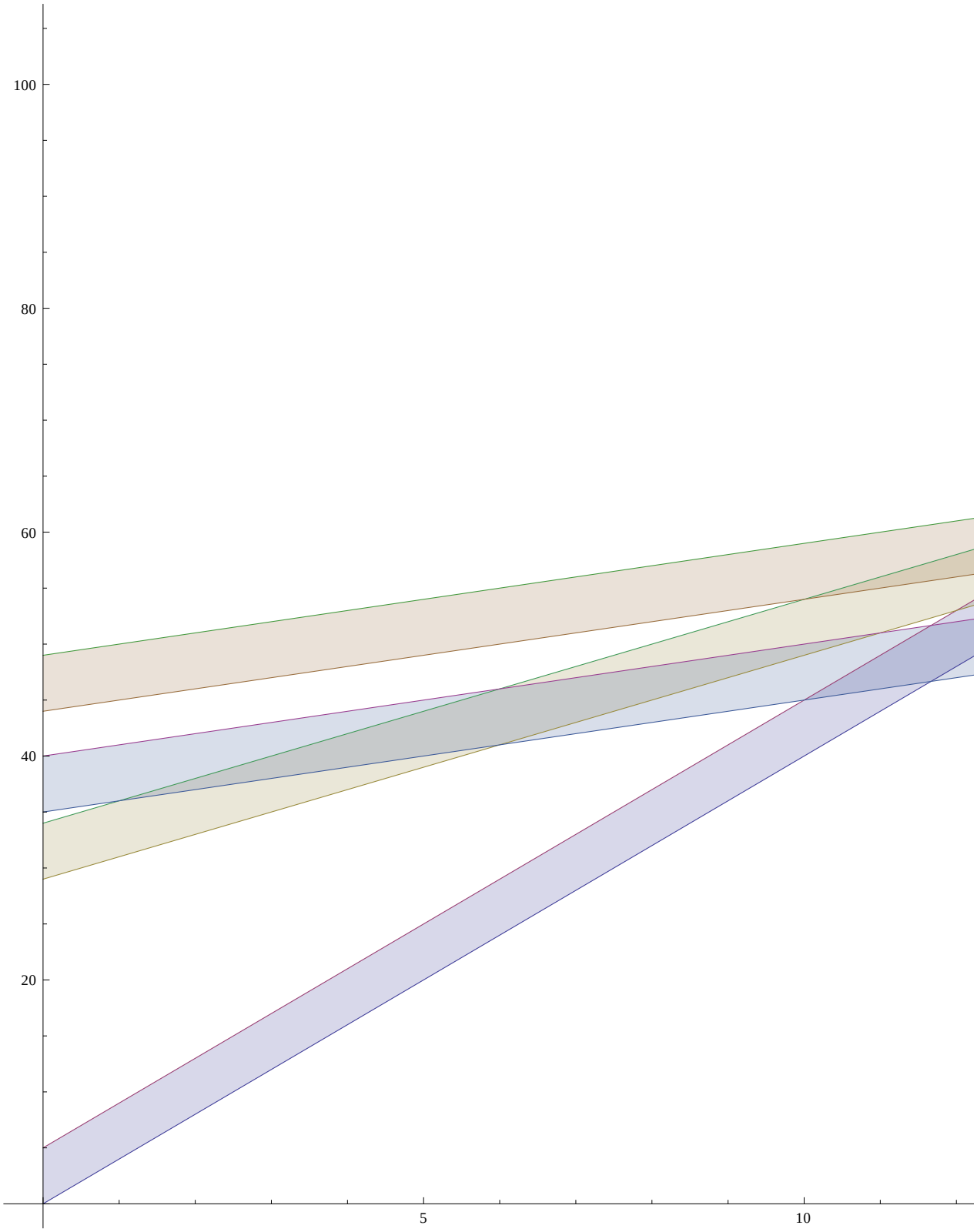
```
m = {{30, 0}, {30, 2}, {10, 39}, {10, 42}, {25, 13}, {15, 29}};

m = {{4, 0}, {2, 29}, {1, 35}, {1, 44}};

m = {{50, 505}, {100, 0}, {100, 0}};

m = {{5, 10}, {100, 0}};

g[y_] := Flatten[Map[{#, # + 5} &, Map[#[[1]] * x + #[[2]] &, y]]];

f[x_] := Table[i → {i + 1}, {i, 1, Length[x] * 2, 2}]
```

```
Plot[Evaluate[g[m]], {x, 0, 25}, Filling → f[m]]
```




```
i =.; j =.; D2 =.;
```

```
Solve[{-y + Si * x + pi + D1 == 0, -y + Sj * x + pj + D2 == 0}, {x, y}]
```

$$\left\{\left\{x \to -\frac{D1 - D2 + pi - pj}{Si - Sj},\ y \to -\frac{-D2\ Si - pj\ Si + D1\ Sj + pi\ Sj}{Si - Sj}\right\}\right\}$$

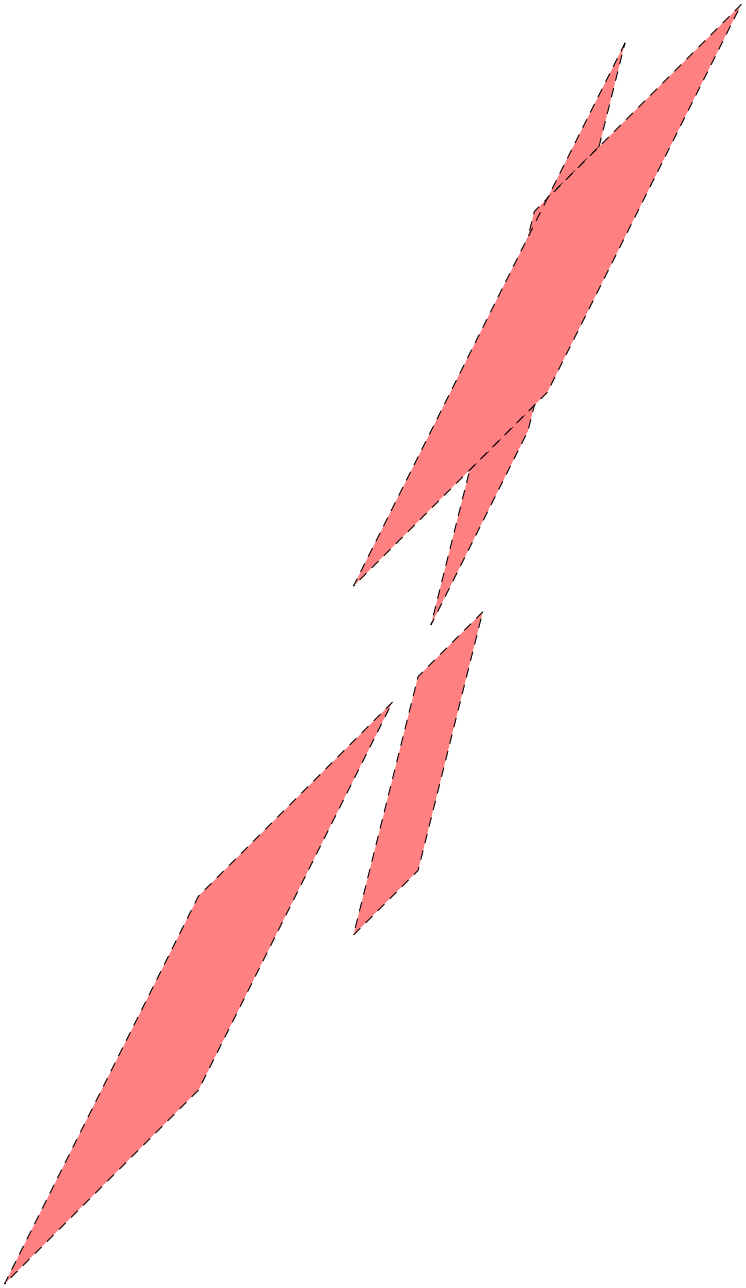
```
t[i_, p_] := -y + m[[i, 1]] * x + m[[i, 2]] + p == 0;

Solve[{t[1, 5], t[2, 0]}, {x, y}] // N
```

$$\{\{x \to 10.2,\ y \to 1020.\}\}$$

```
p = {};
For[i = 1, i <= Length[m], i++,
 For[j = 1 + i, j <= Length[m], j++,
  If[m[[i, 1]] ≠ m[[j, 1]],
   AppendTo[p, {

     {x, y} /. Solve[{l[i], u[j]}, {x, y}][[1]],
     {x, y} /. Solve[{u[i], u[j]}, {x, y}][[1]],
     {x, y} /. Solve[{u[i], l[j]}, {x, y}][[1]],
     {x, y} /. Solve[{l[i], l[j]}, {x, y}][[1]]}]
  ]]
]

p
```

$$\left\{\left\{\{17, 68\}, \left\{\frac{29}{2}, 63\right\}, \{12, 53\}, \left\{\frac{29}{2}, 58\right\}\right\}, \left\{\left\{\frac{40}{3}, \frac{160}{3}\right\}, \left\{\frac{35}{3}, \frac{155}{3}\right\}, \{10, 45\}, \left\{\frac{35}{3}, \frac{140}{3}\right\}\right\},\right.$$
$$\left\{\left\{\frac{49}{3}, \frac{196}{3}\right\}, \left\{\frac{44}{3}, \frac{191}{3}\right\}, \{13, 57\}, \left\{\frac{44}{3}, \frac{176}{3}\right\}\right\},$$
$$\left.\{\{11, 51\}, \{6, 46\}, \{1, 36\}, \{6, 41\}\}, \{\{20, 69\}, \{15, 64\}, \{10, 54\}, \{15, 59\}\}\right\}$$

```
Graphics[{EdgeForm[Dashed], Pink, Polygon[p]}]
```



```
<< Imtek`Geometry`Polygon`
```

```
Get::noopen : Cannot open Imtek`Geometry`Polygon`. ≫
```

```
$Failed
```