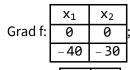
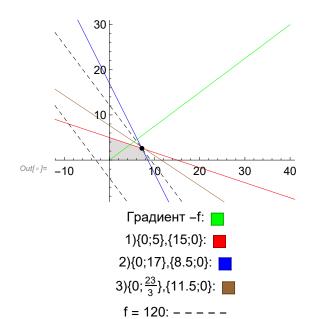
## Решение задачи ЛО графическим методом

$$-x_1 - 3x_2 \ge -15$$
  
 $2x_1 + x_2 \le 17$   
 $-2x_1 - 3x_2 \ge -23$   
 $x_1 \ge 0, x_2 \ge 0$   
 $f = -40x_1 - 30x_2 \rightarrow \min$ 

## Решение

$$-x_1 - 3 x_2 = -15$$
 1) ]  $x_1 = 0$ ,  $x_2 = 5$ ; ]  $x_2 = 0$ ,  $x_1 = 15$ ;  $2 x_1 + x_2 = 17$   $\Rightarrow$  2) ]  $x_1 = 0$ ,  $x_2 = 17$ ; ]  $x_2 = 0$ ,  $x_1 = 8.5$ ;  $-2 x_1 - 3 x_2 = -23$  3) ]  $x_1 = 0$ ,  $x_2 = \frac{23}{3}$ ; ]  $x_2 = 0$ ,  $x_1 = 11.5$ ;





$$2 \cap 1: \frac{-x_1 - 3 x_2 = -15}{2 x_1 + x_2 = 17} \Rightarrow \frac{-x_1 - 51 + 6 x_1 = -15}{x_2 = 17 - 2 x_1} \Rightarrow \frac{x_1 = \frac{36}{5}}{x_2 = \frac{13}{5}};$$

$$f = -40 * \frac{36}{5} - 30 * \frac{13}{5} = -366$$