Pedro Balen

P1

ServA = x

Serv = y

MIN F = 100x + 150y

500x + 800y >= 10000

100x + 150y <= 3000

 $10x + 15y \le 200$

x,y >= 0

P2

Proc1 = x

Proc2 = y

Proc3 = z

MIN F = 5x + 7y + 4z

$$10x + 15y + 8z >= 500$$

x <= 40

y >= 30

x,y,z <= 60

x,y,z >= 0

P3

Alta = x

Media = y

Baixa = z

MAX F = 10x + 7y + 4z

2x + 1.5y + yz <= 100

x >= 20

y + z < = 50

x <= 2y

x,y,z >= 0

P4

jobX = x

jobY = y

jobZ = z

MAX F = 8x + 6y + 10z

$$5x + 3y + 6z \le 120$$

 $2x + 3y + 1z \le 60$
 $x \ge 5$
 $y \ge 3$
 $z \le x + y$
 $x,y,z \ge 0$

P5

MIN
$$F = 200x + 300y$$

P6

MIN
$$F = 0.05x + 0.10y$$

P7

$$tipo1 = x$$
$$tipo2 = y$$

$$MAX F = 10x + 15y$$

$$2x + 3y \le 30$$

 $4x + 2y \le 40$
 $500x + 700y \le 5000$
 $10x + 15y \ge 100$
 $x,y \ge 0$

P8

google = x facebook = y linkedin = z

$$MAX F = x + y + z$$

 $0.5x + 0.3y + z \le 1000$ $0.1x + 0.05y + 0.2z \ge 50$ $x \ge 2y$ $y \le 500$ $x, y, z \ge 0$

P9

altaMem = x altaCpu = y

MIN F =
$$20x + 25y$$

10x + 8y >= 100 32x + 16y >= 400 4x + 8y >= 200x, y >= 0

P10

local = x nuvem y

 $0.01x + 0.05y \le 200$