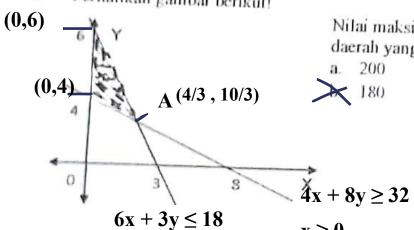
Perhatikan gambar berikut! 4.



Mencari titik potong pada A:

Eliminasi

$$6x + 3y = 18 \begin{vmatrix} x & 4 \\ 4x + 8y = 32 \end{vmatrix} \begin{vmatrix} x & 4 \\ x6 \end{vmatrix} = 24x + 12y = 72$$

$$-36y = -120$$

$$y = -120$$

$$y = -120$$

$$y = 10$$

Substitusi

Substitusi
$$6x + 3y = 18$$

$$6x + 3 (10/3) = 18$$

$$6x + 10 = 18$$

$$6x = 18 - 10$$

$$6x = 8$$

$$x = \frac{8}{6}$$

$$x = \frac{4}{6}$$

Nilai maksimum f(x,y)=60x+30y untuk (x,y) pada daerah yang diarsir adalah

 $x \ge 0$

 $y \ge 0$

180

Mencari nilai maksimum pada

$$f(x,y) = 60 x + 30y$$

$$f(4/3, 10/3) = 60 (4/3) + 30 (10/3)$$

$$= 80 + 100$$

 $= 180$

$$f(0,4)$$
 = 60 (0) + 30 (4)
= 0 + 120
= 120 NILAI MINIMUM

