

$$2x + y \leq 9$$

$$3x + y \geq 6$$

$$2x + 2y \leq 14$$

$$x, y \geq 0$$

$$y = -2x + 9$$

①

$0 \leq 9 \checkmark$

$$y = -3x + 6$$

②

$0 \geq 6 \triangle!$

$$y = -x + 7$$

③

$0 \leq 14 \checkmark$

A' maximiser: $6x + 5y$

$$6x + 5y = 0 \Leftrightarrow y = -\frac{6}{5}x$$

$$6 \cdot 2 + 5 \cdot 0 = 12$$

$$6 \cdot 4,5 + 5 \cdot 0 = 27$$

$$6 \cdot 2 + 5 \cdot 5 = 37$$

$$6 \cdot 0 + 5 \cdot 7 = 35$$

$$6 \cdot 0 + 5 \cdot 6 = 30$$

Le max. est atteint en $(2; 5)$:
 $x=2, y=5.$

