3.7) Regions

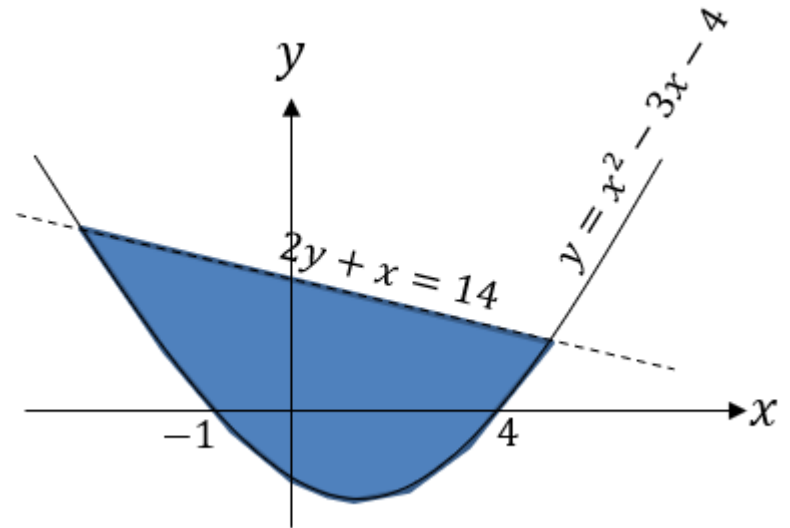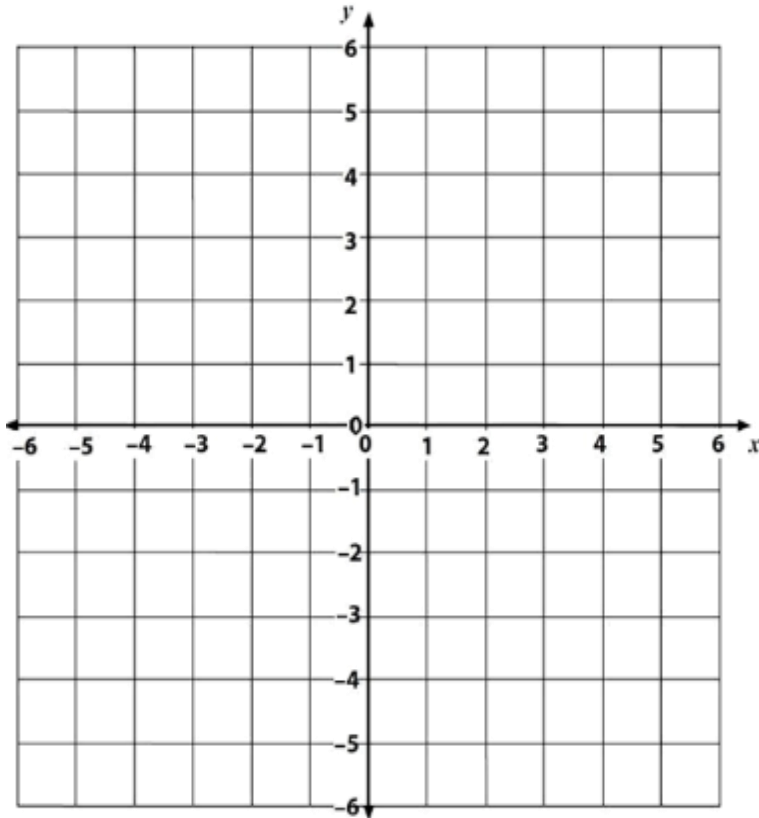| Worked example	Your turn
Shade the region that satisfies the inequalities: $$4y + x \leq 12$$ $$y > x^2 - 5x - 6$$	Shade the region that satisfies the inequalities: $$2y + x < 14$$ $$y > x^2 - 3x - 4$$

Worked example	Your turn
Shade the region which satisfies the inequalities. Label it R.	Shade the region which satisfies the inequalities. Label it R
$2 \leq x \leq 5$ and $1 < y < 3$	$1 \leq x \leq 4$ and $2 < y < 6$
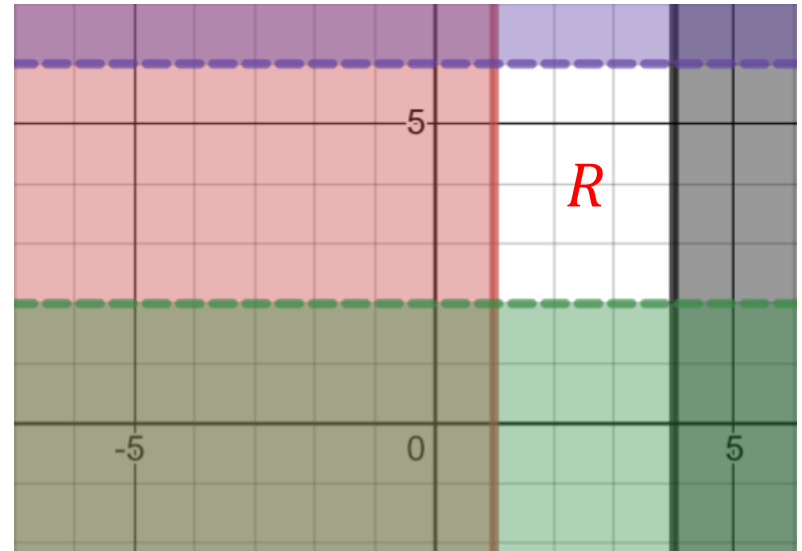
Worked example	Your turn
Shade the region which satisfies the inequalities. Label it R	Shade the region which satisfies the inequalities. Label it R.
$x \leq 3, y > 1$ and $y \geq x + 3$	$x < 4, y \geq 3, y \geq x + 2$
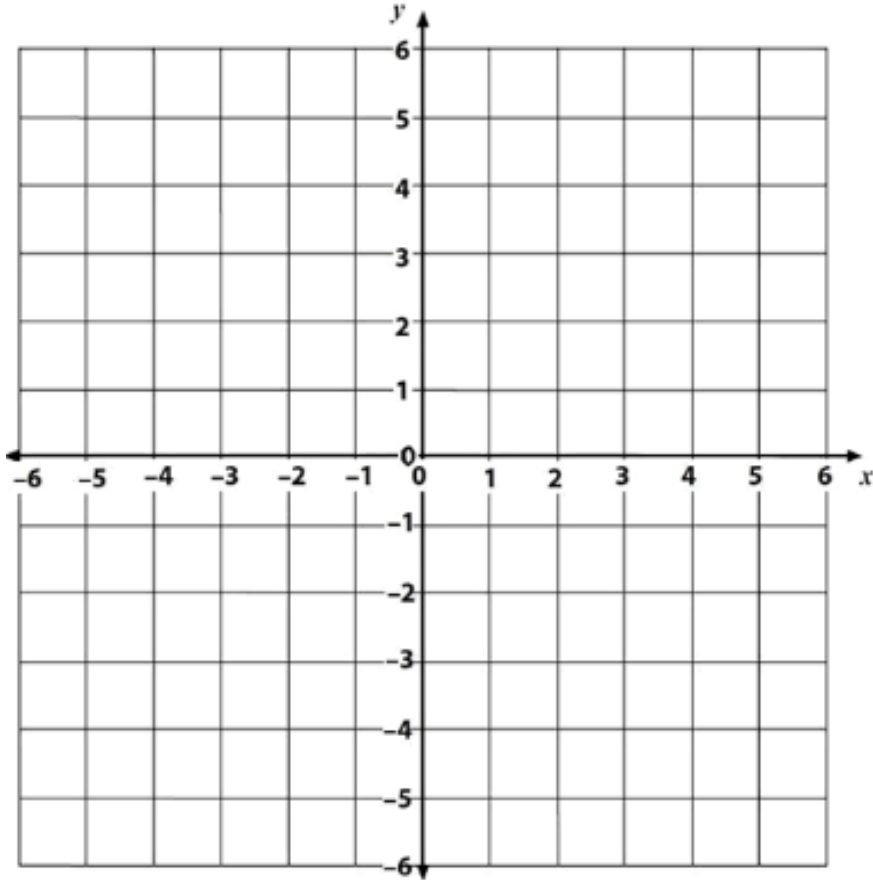
R

Graphs used with permission from DESMOS: https://www.desmos.com/
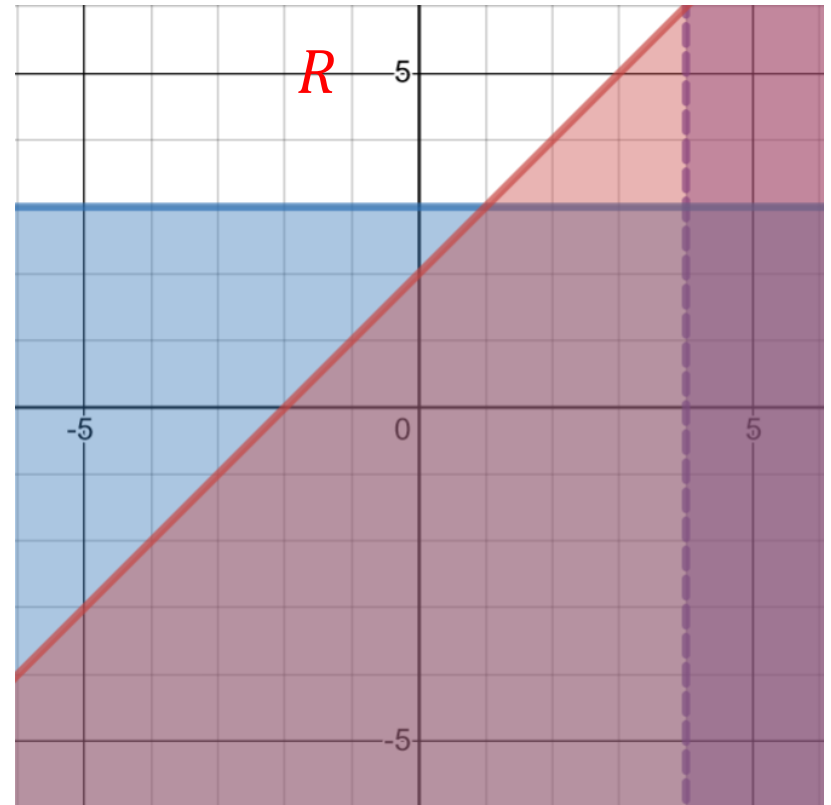
Worked example	Your turn
Shade the region which satisfies the inequalities: $x \geq -2, y < 1$ and $y < x - 1$	Shade the region which satisfies the inequalities. Label it R. $x > -3, y \leq 4$ and $y < x - 2$
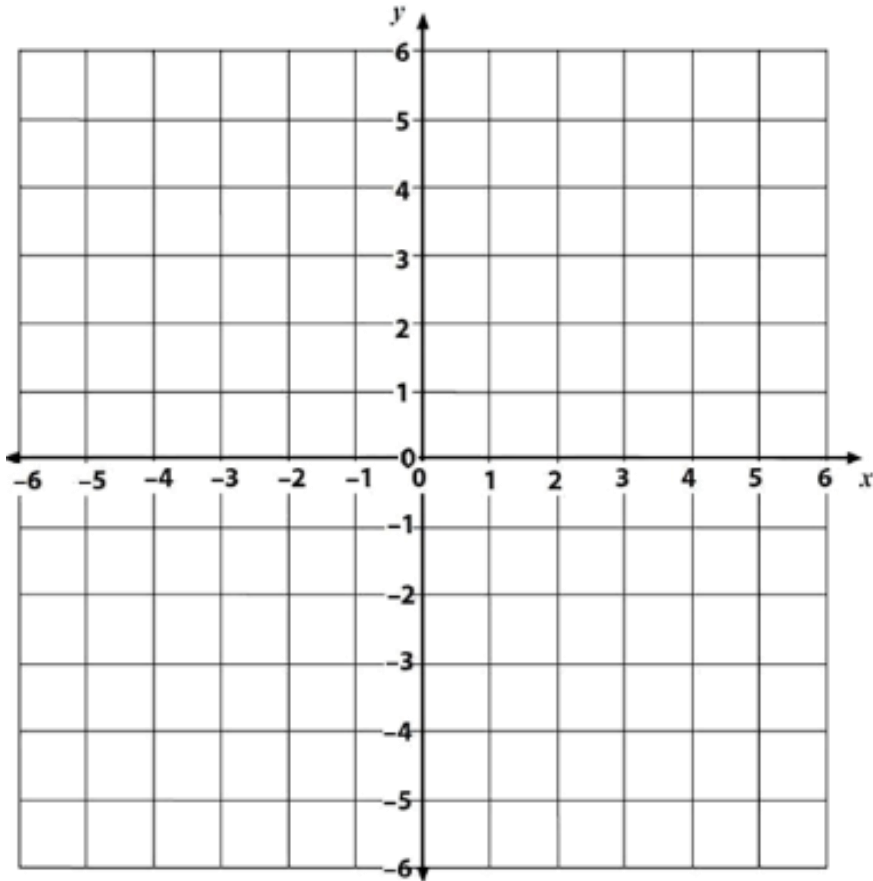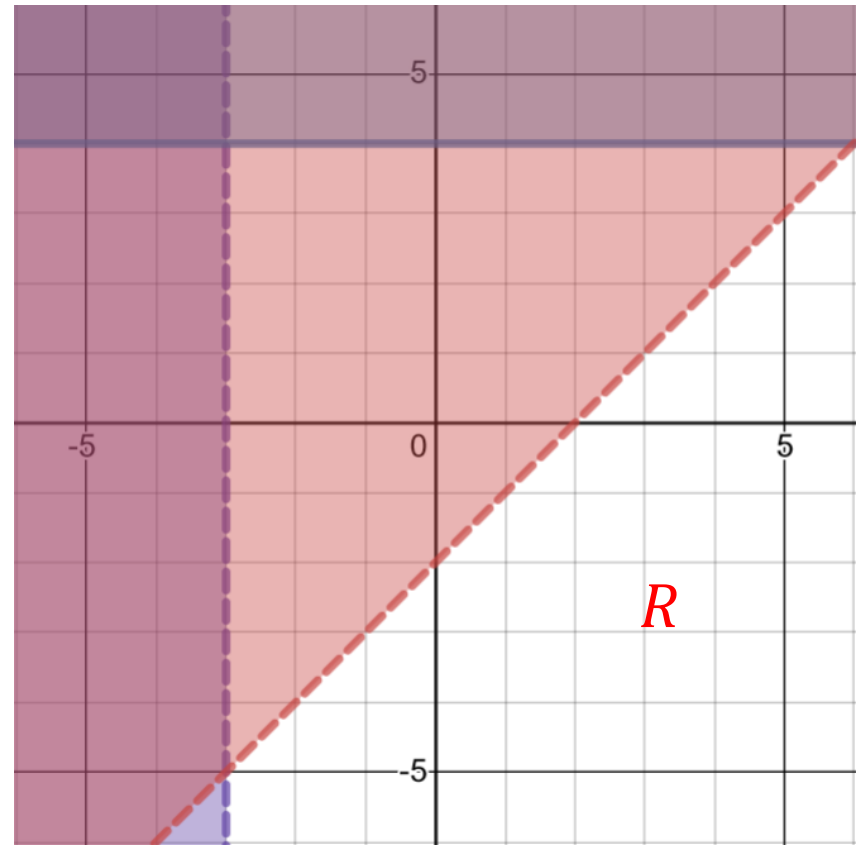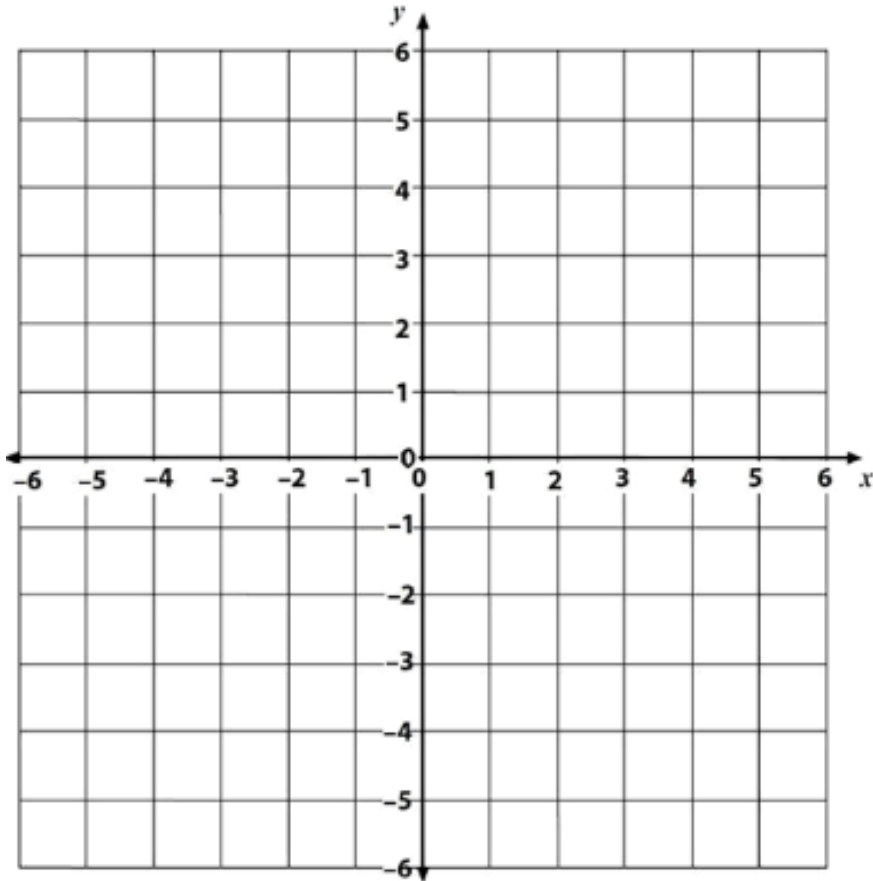
Worked example	Your turn
Shade the region which satisfies the inequalities: $x \geq 2, y > -1$ and $x + y \leq 5$	Shade the region which satisfies the inequalities. Label it R. $x \geq 2, y > 1$ and $x + y \leq 6$