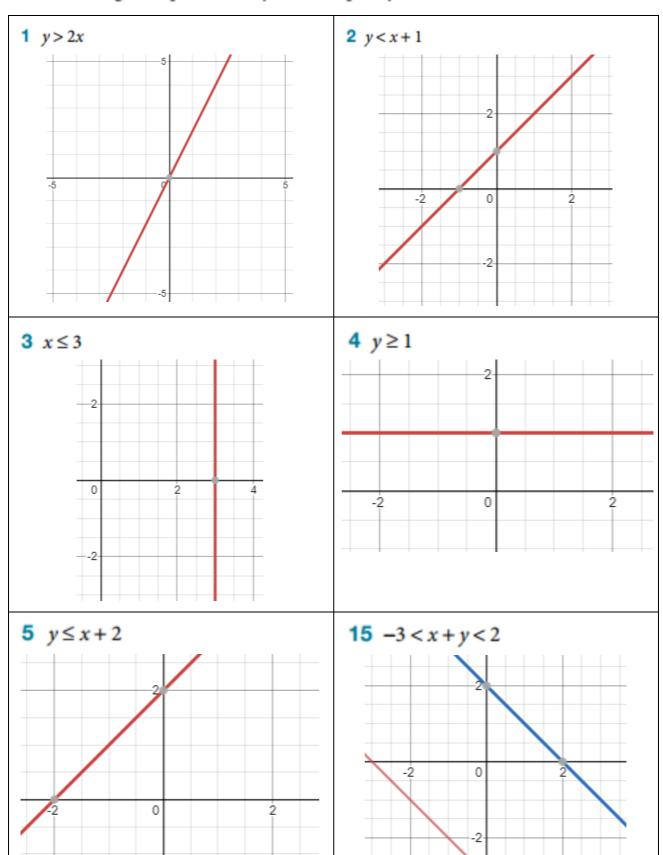
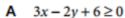
## **REGIONS AND INEQUALITIES**

Shade the region represented by each inequality.



## **REGIONS AND INEQUALITIES**

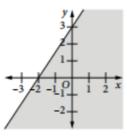
17 Which inequality defines the shaded region?



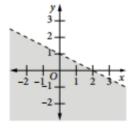
B 
$$3x - 2y + 6 \le 0$$

**C** 
$$3x + 2y - 6 \ge 0$$

**D** 
$$3x + 2y - 6 \le 0$$



- 20 For this graph, indicate whether each statement is correct or incorrect.
  - (a) The equation of the boundary is x + 2y 2 = 0.
  - (b) The gradient of the boundary line is  $\frac{1}{2}$ .
  - (c) The inequality for the region is x + 2y 2 > 0.
  - (d) The inequality for the region is x + 2y 2 < 0.



- **21** (a) Sketch the region defined by the intersection  $y \ge x^2 1$  and  $y \le 3 3x$ .
  - **(b)** Hence write the solution to  $x^2 + 3x 4 \le 0$ .

