## Sketch each region and find its area

1. The region between  $y = -x^2$  and  $y = e^x$  for  $0 \le x \le 3$ 

- 2. The region bounded by  $y = x^2 + 1$  and y = 5
- 3. The region bounded by y = 3x + 2 and  $y = x^3$
- 4. The region bounded by  $y = x^3 x$  and y = 3x
- 5. The region bounded by y = 4x + 4, y = -x + 4 and the x-axis

6. The region bounded by  $x = y^2 + 1$  and x = 5