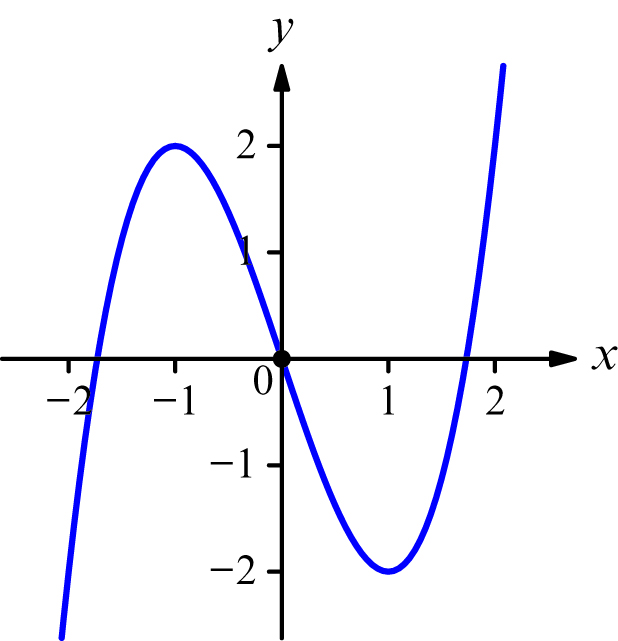
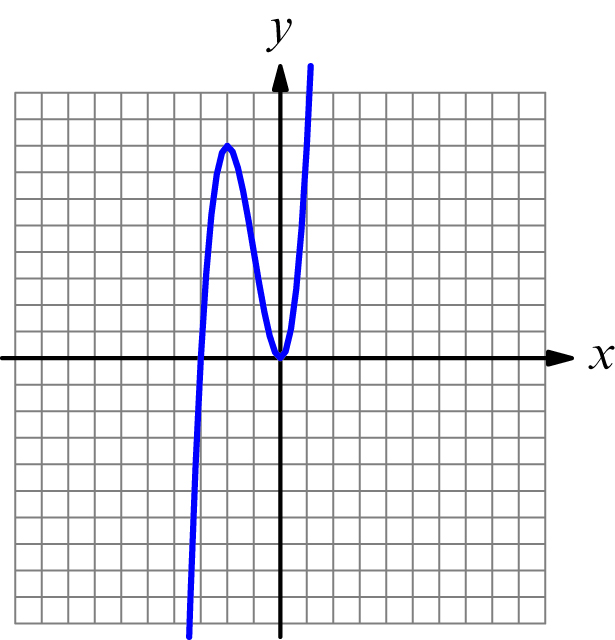
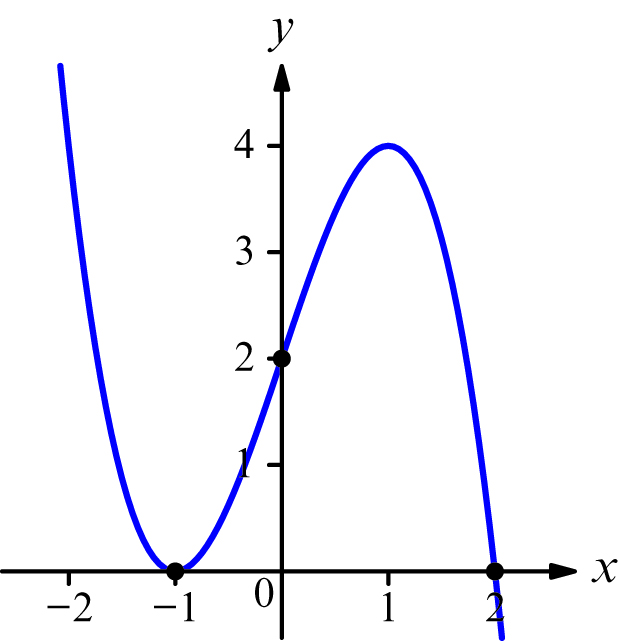
**Self-assessment answers: 5 Transformations of graphs**

**1.** (a)  
 

*[3 marks]*

(b)   
  
 *[3 marks]*

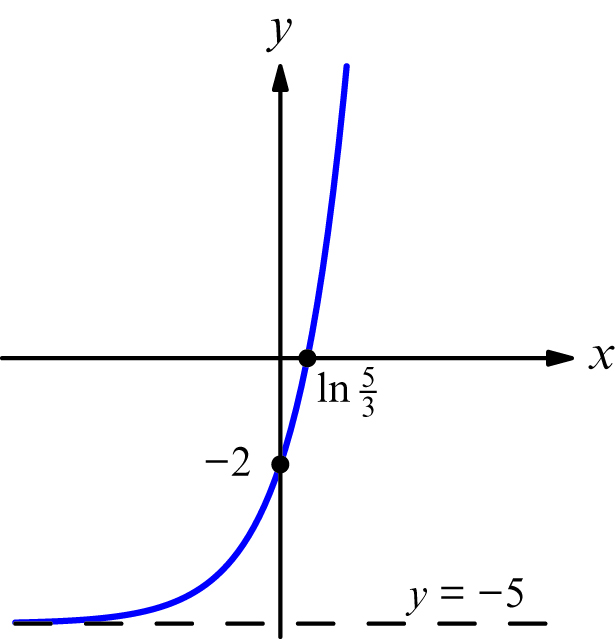
(c)   
  
 *[3 marks]*

**2.** (a) (i) (*x* −3)2 − 4

(ii) Translation by 

*[4 marks]*

**3.** *y* = *x*2 – 3*x* +  *[6 marks]*

**4.   
**

Horizontal asymptote *y* = −5. Intercepts at (0, −2) and 

*[6 marks]*

**5.** (a) *y* = 3*x*2 – *bx* + 5 *[2 marks]*

(b) *b* = 0 *[3 marks]*