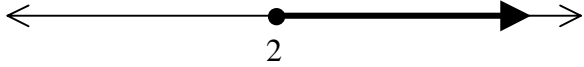



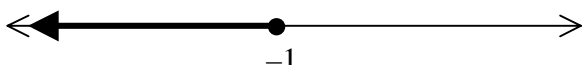


**Answers**  
**Key Concepts Review Chapter P**

1. a)  $\{x|x \geq 2\}$  
- b)  $(-2, 5]$  
- c)  $(-\infty, -2)$   $\{x|x < -2\}$  
- d)  $\{x|-4 \leq x < 0\}$  
- e)  $(-\infty, -1]$  
2. a) i)  $(-2, 3)$  ii)  $(-\infty, 5]$   
 b) i)  $[5, 6)$  ii)  $[-1, 8]$   
 c) i)  $(-\infty, -3)$  ii)  $(-\infty, 0]$   
 d) i)  $\{2\}$  ii)  $(-\infty, \infty)$   
 e) i)  $(1, 3]$  ii)  $[-1, \infty)$
3. a)  $\frac{2^5 x^{12}}{y^{\frac{16}{15}}}$  b)  $\frac{1}{3^4 x^{12}}$   
 c)  $\frac{y^4}{z^{\frac{3}{2}}}$  d)  $\frac{3t^{\frac{25}{6}}}{s^{\frac{1}{2}}}$   
 e)  $\frac{3y^{\frac{7}{2}}}{x^{\frac{1}{2}}}$
4. a)  $x^{\frac{-3}{2}}(x+1)^2$  b)  $x^{\frac{-1}{2}}(x+1)^{\frac{-1}{2}}(2x+1)$   
 c)  $x^{\frac{-1}{2}}(x+4)(x+1)$  d)  $(1+x)^{\frac{-2}{3}}(3+2x)$   
 e)  $3x^{\frac{-1}{2}}(x-2)(x-1)$
5. a)  $\frac{-1}{t(t+h)}$  b) 1  
 c)  $\frac{x^4 + x^2 y^2 - x^2 y^4}{x^2 + y^2}$  d)  $\frac{c}{c-4}$   
 e)  $-y-x$