

Answers to 3A3 2006

1. (b) (i) 0.84, 1, (ii) 0.65, 0.86.  
(c) 0.93.
2. (a) 0.572.  
(c) 0.74, 1.17.  
(d) 0.992.
3. (a) 2.  
(b)  $1.25a_0$ ,  $1.30a_0$ .  
(c) 1.73.
4. (b) 0.77.  
(c) 0.95.  
(d) 0.87.  
(e) 0.93.
7. (a) 1.39 bar, 84.2%, 74.0%.
8. (a) 0.112m.  
(b) 308.7k, 1.275bar,  $-63.4^\circ$   
(c) 1.258 bar, 1,124bar.  
(d) 0.473.