

3B3 Numerical answers

1 (a) (ii) 298V

(iv) 4.1mx

(b) (ii) 0° to 143°

2 (d) (i) turns ratios between 112:1 and 18:1 are possible with a turns ratio of 50:1, range of duty cycle is 0.41 to 0.64

(iii) 610 V for 50:1 turns ratio

4 (c) (iii) 10.6 Ω

(iv) 21.3 ns