

1.11 (a)  $\sqrt{(100-1)^2 + (200+2)^2}$  (M1)  
 $\sqrt{50605}$  (= 224.955...) (A1)

**Note:** Award (M1)(A1) if  $\sqrt{50605}$  seen.

224.96 (A1) (C3)  
 )

**Note:** Award (A1) for their answer given correct to 2 decimal places.

(b) 225 (A1)(ft) (C1)

**Note:** Follow through from their part (a).

(c)  $2.25 \times 10^2$   
 (A1)(ft)(A1)(ft) (C2)

**Notes:** Award (A1)(A0) for 2.25 and an incorrect index value.  
 Award (A0)(A0) for answers such as  $22.5 \times 10^1$ .

[6 marks]