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2 2(a)(ii) (using  $\tan 25^\circ = V_V / V_H$ )  $V_H$   
 $o = V_V / \tan 25 = 1 / \tan 65 = 5 / \tan 25^\circ$   
 $= 11 \text{ (m s}^{-1}\text{)} (10.7 \text{ m s}^{-1}\text{)}$  Or (using  $\cos$   
 $25^\circ = V_H / V$ )  $V_H = V \cdot \cos 25^\circ = 11.8$   
 $\cos 25^\circ = 11 \text{ (m s}^{-1}\text{)} (10.7 \text{ m s}^{-1}\text{)}$  Or (using

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$V_H^2 + V_V^2 = V^2$   $V_H^2 + 5 = 11.82$   
(Or  $122$ )  $V_H = 11 \text{ (m s}^{-1}\text{)}$  ( $10.7 \text{ m s}^{-1}$ )  
Note  $1/\cos 65^\circ = \sin 25^\circ$  and  $\tan 25^\circ$

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2 (i)  $s = \frac{1}{2}gt^2$  gives  $t = \sqrt{\frac{2 \times 24}{9.8(1)}} = 2.2(1) \text{ s}$   
 $v (= s/t) = 27/2.2(1) = 12.2 \text{ m s}^{-1}$  or  $12.3$  (ecf from (b) (i))

(b) (ii) (answer only gets both marks) 4

Total 6 Question 5 (progressive waves travel from centre) to ends and reflect !  
two (progressive) waves travel in opposite

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 $0.75 \text{ d} = 1.2 \cdot 9.81 = 12.981$   $5.1 \cos 40 = 0.75 \dots$   
 $d = 0.25 \text{ (m)}$  C1 C1 A1 Allow 2 marks if

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sine of the angle is used instead of cosine;  
this gives an answer of 0.21 (m). Allow-  
use of 9.8 (m s<sup>2</sup>) Note:  $5.1 \times 0.75 = d \times 1.2$   
 $9.81$ ;  $d = 0.32..$  (m) scores 1 mark  
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