|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Physics 20 - Lesson 12**  **Relative Motion – Answer Key**  / 87 | | | | | |
| 1)  /10 | a) –1.5  b) –2.0  c) –1.3  d) –5.0  e) +7.0 | | f) +4.8  g) +1.3  h) –5.5  i) 0  j) –6.8 | | | |
| 2)  /4 | a) 28.5 east  b) 35.0east  c) 1.5 east  d) 5.0 west | | | | | |
| 3)  /5 | 1.0km | | | | a)    b)  walker:  canoeist: | |
| 4)  /4 | a)  7.6  1.6 | b)  -1.6  7.6 | | c)  1.6  7.6 | |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5)  /6 |  | |  | | | | |
| 6)  /7 | A  A) | |  | | | B) | |
| 7)  /6 | Medan          Georgetown | |  | | | | |
| 8)  /8 | 112  255 | |  | | | | |
| 9)  /9 |  | | a)  b)  c) | | | | |
| 10)  /6 | a) fastest  aim straight across and  let the current carry you | | | | b)  d) | | |
| c)  1.4    0.80 |  | | |
| 11)  /10 | 45+15.32 = 60.32  12.86 | | | | | |  |
| 12)  /12 | 103.24  92.55 | | |  | | | |