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|  | **Physics 20 - Lesson 10**  **Trigonometry Review – Answer Key**  /30 | | | | | | | | |
| 1)  /3 | a  A  c  b | |  | | |  | | |  |
| 2)  /2.5 | a)  b) | c)  d) | | | | | e) | | |
| 3)  /4.5 |  |  | | | | |  | | |
| 4)  /5 | 30°  opp  42cm | | |  | | | |  | |
| 5)  /3 | 24cm  55°  hyp | | |  | | | | | |
| 6)  /3 | 38°  15cm  hyp | | |  | | | |  | |
| 7)  /5 | 12cm  hyp  16cm | | |  | | | |  | |
| 8)  /4 | 20 | | |  | | | | | |
| **Physics 20 - Lesson 10**  **Vector Addition – Answer Key**  /73 | | | | | | | | | |
| 1)  /6 | 20 m  30 m  10 m  25 m  15 m | | | | distance      displacement | | | | |
| 2)  /8 | 5cm  20cm | | | |  | | | | |
| 3)  /8 | 30m  20m  10m | | | |  | | | | |

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| 4)  90–60=30  /8 | | 30 | | |  | | | | |
| 5)  /6 | | 50km  60km-20km = 40km | | |  | | |  | |
| 6)  /9 | | a)    b)  858m    297m    c) | | |  | | |
| 7)  /10 | | N-S    430m    580m      E-W |  | | |  | |
| b) | | | | | |
| 8)  /6 | | a) car  canoe  c) car    canoe | | b) since the canoe and the car start from the same point and end up together at the same spot, the canoe has the same displacement | | | |

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| 9)  /12 | 0.5km  1.5km    a) |  |
| b)  0.5km      2.25km |  |
| c)      1.0km  3.0km |  |