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| **Physics 20 - Lesson 30****Two-Dimensional Waves – Answer Key**/ 70 |
| 1)/1 | Angle of Incidence = Angle of Reflection |
| 2)/1 | When a wave passes from one medium into another, its speed, wavelength and angle to the normal change. |
| 3)/2 | Low speed > High Speed    |
| 4)/4 | a) Wave slows down  Wavelength is shorterb) Wave is faster Wavelength is longer |
| 5)/2 | 1) The energy is being spread over a larger area2) Energy is lost as heat as it travels through a medium |
| 6)/2 |     |
| 7)/2 |  X        Y |
| 8)/3 |  X          YRay and surface Y = Angle of Reflection from Y =  |
| 9)/3 |            |
| 10)/6 |  fast slow fast  |  slow fast  faster |  fast slow faster  |

|  |  |  |
| --- | --- | --- |
| 11)/6 |  Fast Slow |  Fast Slow  |
|  Slow Fast  |  Slow Fast |
|  Fast Slow  |  Fast Slow |
| 12)/3 | Two way time = 2.50s |  |
| 13)/6 |  v = 1150m/s 3.25s 4.26s  | BottomSub |
| 14)/3 |  |  |
| 15)/3 |  |  |
| 16) |  |
| /3 |  |
|  |  |
| 17)/12 | a)   Destructiveb)   Constructivec)   Constructived)   Destructive |
| 18)/8 | a)  | b)  | c)  | d)  |