_____ Date_____ Period___ Waves, Worksheet 7

Name

Questions 1-4 show pulses A and B at time = 0 as they head toward each other. Each pulse travels at a constant speed of 2 squares per second on a string which is 16 squares long. For questions 1-4, at t = 1 s, 2 s, 3 s, and 4 s, show the position of <u>pulse A in red</u> and <u>pulse B in blue</u>. Using the principle of superposition, show the <u>resultant displacement of the string in green</u>.



Questions 5 - 8 show pulses A and B at time = 0 as they head toward each other at the same constant speed of 1 square per second. The string which is 16 squares long. For questions 5 - 8, at t = 3 s, 4 s, 5 s, and 6 s, show the position of <u>pulse A in red</u> and <u>pulse B in blue</u>. Using the principle of superposition, show the <u>resultant displacement of the string in green</u>.







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