

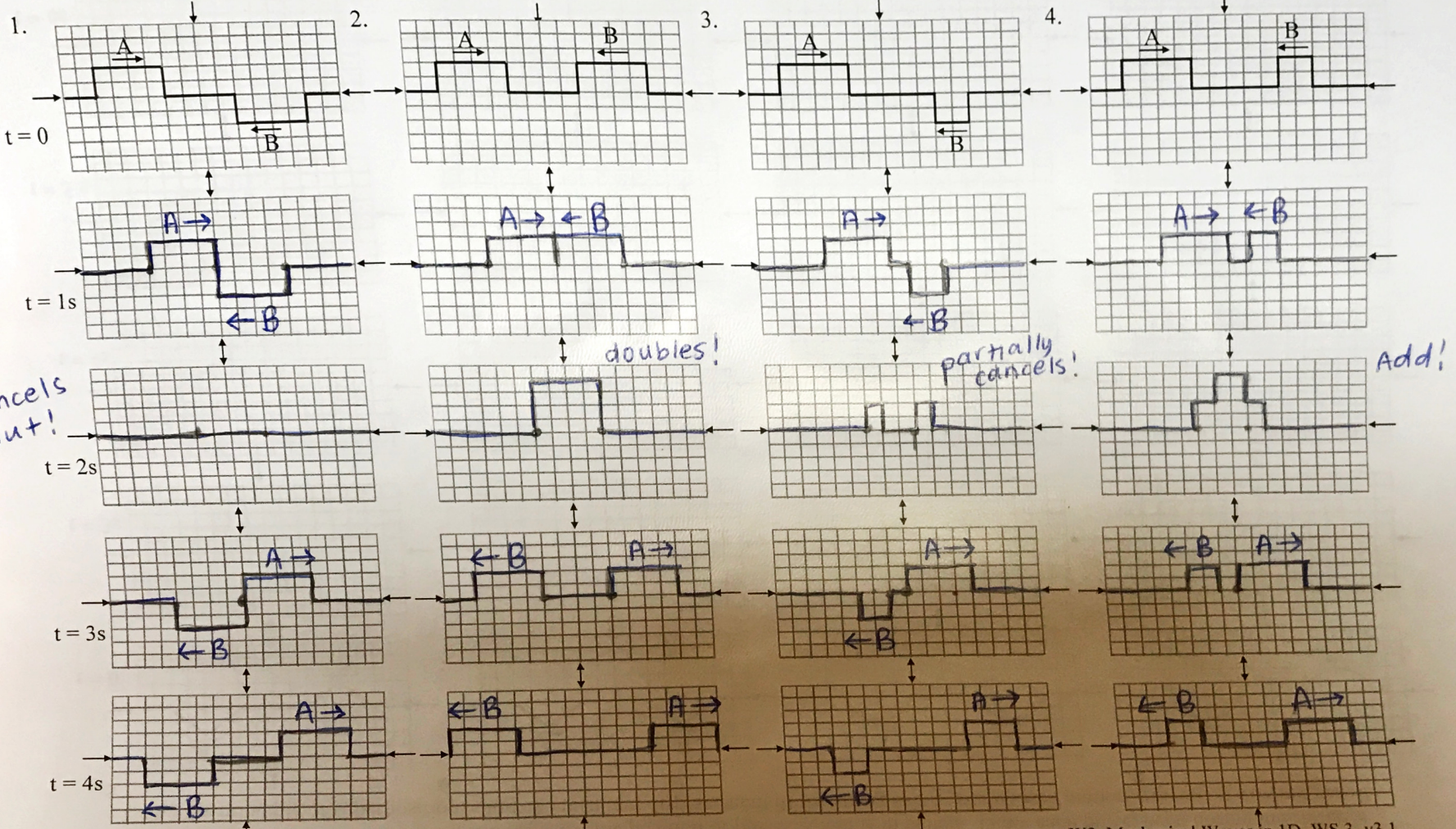
Physics Unit 9 Wave Interference Worksheet

Name answers

#s 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.

For questions 1 - 4, at  $t = 1s, 2s, 3s,$  and  $4s,$  show the position of pulses A and B in pencil. Draw each pulse, even during interference.

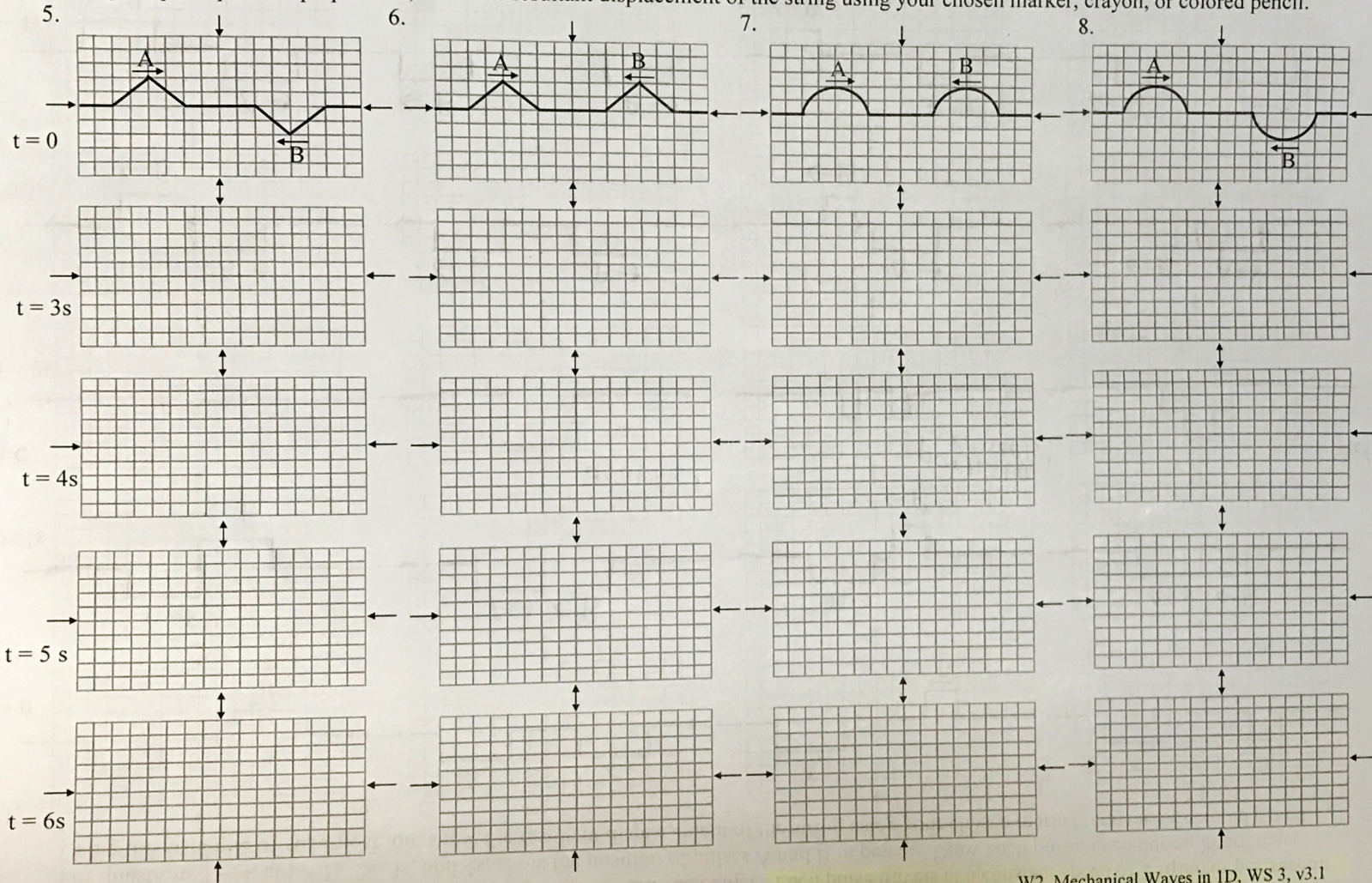
Using the principle of superposition, show the resultant displacement of the string using your chosen marker, crayon, or colored pencil.



★ when waves meet you must ADD them together ★

★ try these ones on your own ...

#s 5 – 8 show pulses A and B at time = 0 as they head toward each other. Each pulse travels at a constant speed of **1 square per second**. For questions 5 – 8, at  $t = 3s, 4s, 5s,$  and  $6s,$  show the position of pulses A and B in pencil. Draw each pulse, even during interference. Using the principle of superposition, show the resultant displacement of the string using your chosen marker, crayon, or colored pencil.



★ Same Rules as squares.