## Phy 4C 2/6 Monday, February 6, 2017 11:55 AM Goals for the Lecture: 1) Understand the difference between transverse and longitudinal waves 2) Understand the wave function $y(x, t) = A \sin(kx - \omega t + \varphi)$ for sin waves and how to use it 3) Velocity of a wave: v=λf 4) Understand and be able to calculate transverse speed and acceleration 5) Understand what affects the speed of a wave on a string and how to calculate it 6) Understand reflection and transmission of mechanical waves worksheet P. 137 Transverse - up and down A) Longitudinal -> Left and Right all Stay the same B only tension changes speed continue to more in original direction p. 138 () Look at pulse height Amplitudes add (larger amplitude) 2) all the amplitudes 3) 4) ampitules add P. 139 725 (displacement from equilibrium) 2)









