





- To find *v*, consider the forces, use Newton's 2nd law, calculate derivatives (complicated!)
- From wave eqn: $v \approx \sqrt{(\text{Acceleration / Curvature})}$
- Another way: $v \approx \sqrt{(\text{Restoring force / Inertia)}}$
- 1-D transverse wave on string: $v = \sqrt{(F/\mu)}$
- Longitudinal wave in fluid: $v = \sqrt{(B/\rho)}$
- Sound wave in a gas: $v = \sqrt{(\gamma RT/M)}$ §15.4, 16.2

















