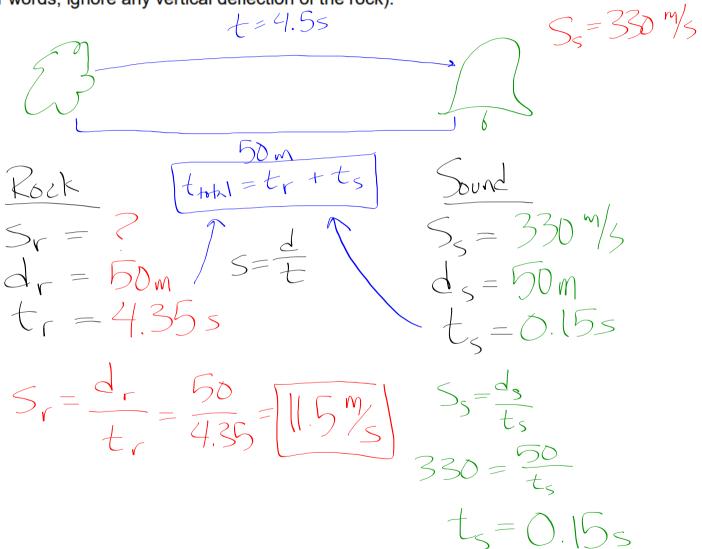
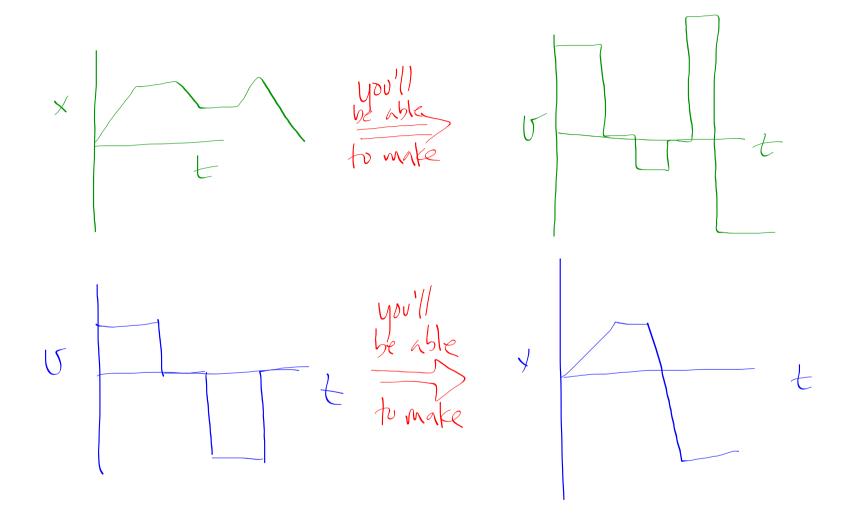
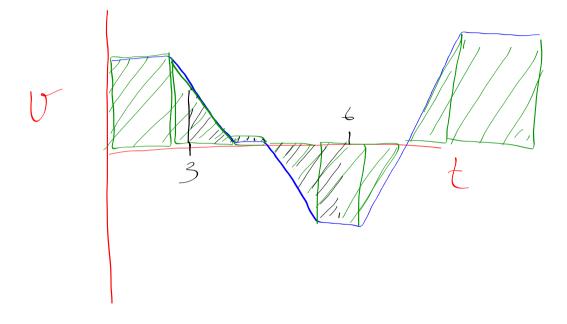
8. A rock thrown horizontally at a large bell 50 m away is heard to hit the bell 4.5 s later. If the speed of sound is 330 m/s, what was the speed of the rock? (Disregard the effect of gravity – in other words, ignore any vertical deflection of the rock).







$$\Omega = \frac{\Delta v}{\Delta t} \Longrightarrow \frac{m/s}{s} \longrightarrow \frac{m}{s} \div s \Rightarrow \frac{m}{s} \cdot \frac{1}{s} = \frac{m}{s^2}$$

$$\frac{M}{S^2} = \frac{DA}{S \cdot S} \cdot \frac{1 \text{ km}}{1000 \text{ m}} \cdot \frac{3600 \text{ s}}{1 \text{ hr}} \cdot \frac{3600 \text{ s}}{1 \text{ hr}}$$