

Problems of the Week 5

Always show your work to receive credit (NO WORK=NO CREDIT)

1. A string consists of two parts attached at $x=0$. The **right** part of the string has mass per unit length **12.8 g/m** and the **left** part has mass per unit length **3.2g/m**. The string tension is T . If a wave of amplitude 3.5cm travels along the left part of the string, what is the amplitude of the wave that is transmitted to the right part of the string (**1 point**)?

- A. 0.26cm
- B. 1.4cm
- C. 2.3cm
- D. 3.0cm
- E. 5.2cm

