2.2 Calculating with Scalars and Vectors.notebook





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Ex.) A truck travels west for <u>3.0 h</u>. Its displacement is then <u>2.60 x 10² km west</u> from its starting point.

a) What is the average velocity of the truck?

$$\overline{V} = \overline{d} + \overline{d} = 2.60 \times 10^{2} \text{ km}$$

 $\overline{V} = \frac{2.60 \times 10^{2} \text{ km}}{3.0 \text{ h}}$

 $\overline{V} = 86.66666...$

 $\overline{V} = 87 \text{ km/h} [W]$

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Ex.) It takes <u>1.00 min</u> for a sound wave to travel 20 x 10^1 km [W]. What is the velocity of sound, in m/s?

