

$$1 \frac{\text{mi}}{\text{hr}} = 1 \frac{\text{mi}}{\text{hr}} \times 5280 \frac{\text{ft}}{\text{mi}} \times \frac{1 \text{ m}}{3.28 \text{ ft}} \times \frac{1 \text{ hr}}{3600 \text{ s}} = 0.447 \frac{\text{m}}{\text{s}}$$