Velocity Problem 3 (redo)

① 1a) $v = 22.7\ m/s \quad t = 16.5\ s$

1b) d

2) $v = \frac{d}{t}$

3) $22.7 = \frac{d}{16.5}$

4) $16.5 \cdot 22.7 = \frac{d}{16.5} \times 16.5$

$374.55\ m$ through the air $= d$

5) $v = \frac{d}{t}$

$t \times 22.7\ m/s = \frac{374.55\ m}{t} \times t$

$\frac{22.7 \times t}{22.7} = \frac{374.55}{22.7}$

$t = 16.5\ s$ ✓

$$a = \frac{(v_f - v_0)}{t}$$ ②

$$W = F \cdot d$$

$$F = m \cdot a$$

3) $v = \frac{1542.6}{88.71}$

4) $v =$ ____ m/s North

5) $v = \frac{d}{t}$

t v ____ $= \frac{1542.6}{\text{[illegible]}}$ v