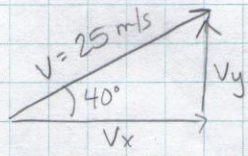
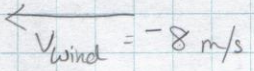
P # B (cont)

Ch. 3 Worksheet



From Question A:
$V_x = 19.2$ m/s
$V_y = 16.1$ m/s



c) The wind blows in a horizontal direction, so V_y is not affected.

Altitude remains constant

d) Wind blows against the rocket's velocity, so

$$V_x = 19.2 \text{ m/s} - 8 \text{ m/s} = 11.2 \text{ m/s}$$

$t = 3.3$ sec (from Question A)

$$d_x = V_x \cdot t$$
$$= (11.2 \text{ m/s}) \cdot (3.3 \text{ sec})$$

$d_x = 36.96$ m