

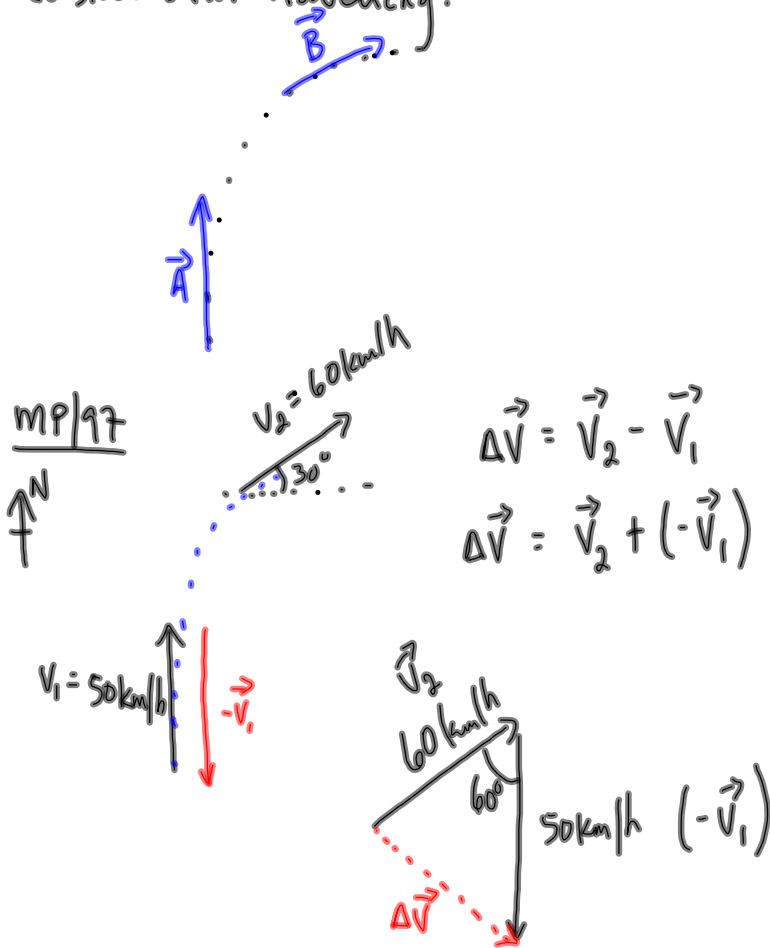
Subtraction of Vectors

Think about: $7 - 2 = 7 + (-2)$

$$\vec{B} - \vec{A} = \vec{B} + (-\vec{A})$$



Consider a car travelling:



You finish + check answer in book.

PP/98/13-15

TEST-Tues

- add vectors
 - scale diagram
 - solve mathematically
 - 2 vectors → draw Δ
 - 3 or more vectors → use the x-y chart (from a FBD)
 - Subtract vectors
 - components
 - relative motion
 - forces at angles
 - inclines
 - proportionalities
- } Draw a FBD →
- $$\vec{F}_{net} = m\vec{a}$$

$$F_f = \mu F_N$$

$$F_g = mg$$

+ kinematics

Math Tools

• $c^2 = a^2 + b^2$

• SOH/CAH/TOA

you need to know

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

given

Book

§ 10-1

§ 3-2, 3-3

Additional Review

• NS EXAMS

• MCGRAWHILL