

1. Experiment 9.1 - Conservation of Momentum
- Due: Thursday, Nov. 6/14
- 2 Days Late Today
2. Return - Test: Unit 1 -> Today, Nov. 7/14
3. Check -> Text: Page 536, PP #1-8
4. Experiment 7.2 - Range of a Projectile
5. Formative Assessment - Projectile Fired Horizontally
6. Projectile Fired at an Angle

Test U1-L2

a) $\vec{v}_{BS} = 5.5 \text{ m/s}, 55^\circ \text{ S of E}$
 35° E of S

b) $1.6 \times 10^2 \text{ m}$

c) 45° W of S (heading)

2. $\vec{v}_f = -3.8 \text{ m/s}$

3. a) -1.1 m/s
b) $\Delta E_K = -2.8 \times 10^4 \text{ J}$ (inelastic)

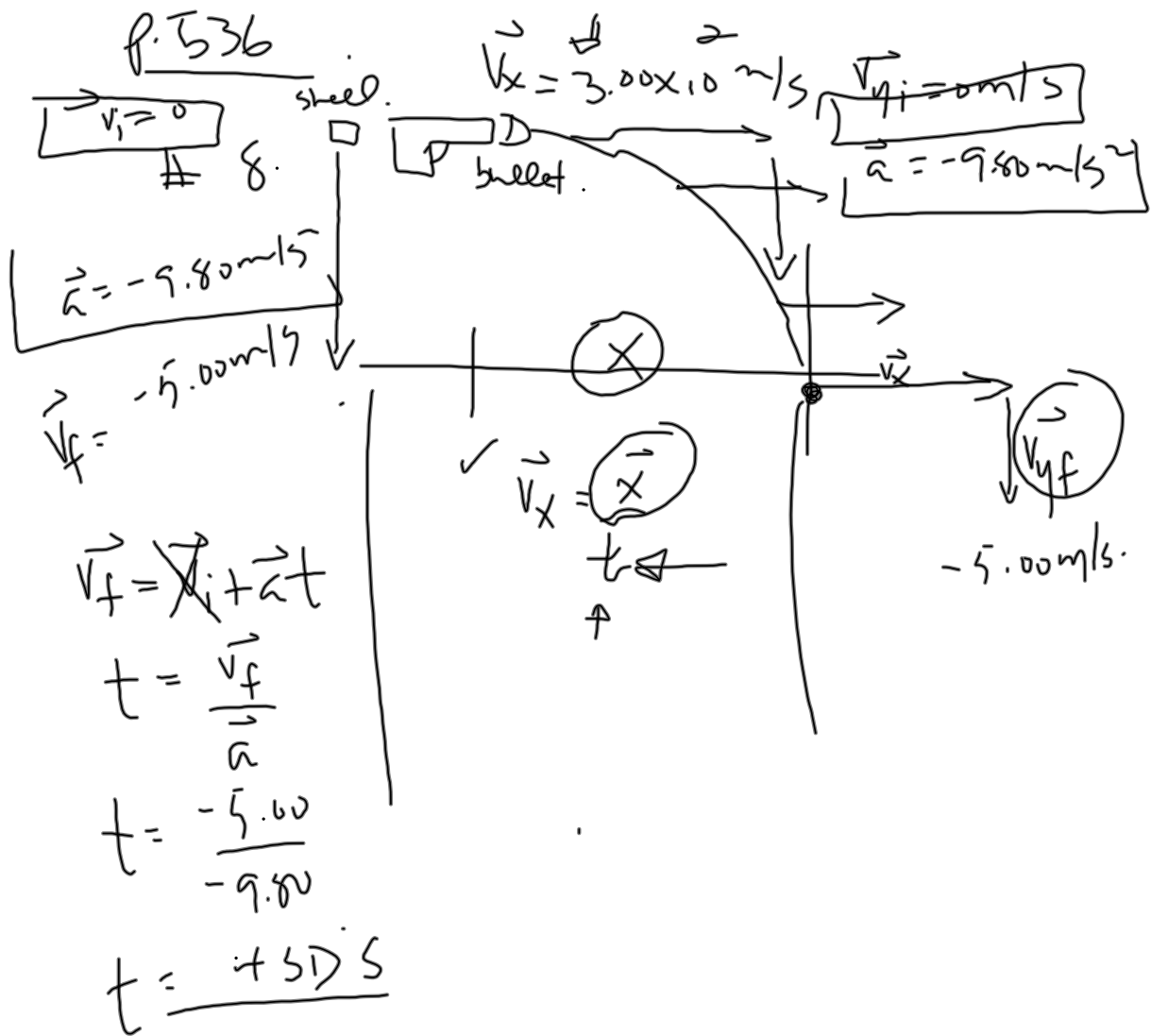
4. 112 kg

5. 1.1 m

6. $1.07 \text{ m/s}, 29.7^\circ \text{ S of W}$
 $60.3^\circ \text{ W of S}$

L1
#1. 155 km/h
 $49.5^\circ \text{ N of W}$
 $42.5^\circ \text{ W of N}$
#2. 37 kg

Midterm FA -> Push/Pull or Incline
L1/L2 F.A. -> Rel. Vel. (Boat/Plane)
-> Static Torque
F.A. -> 2D Collision
-> 1D Collision
FA. -> Horiz. Projectile



FA - Horizontal Projectile - Nov. 10/14

A projectile is fired with a horizontal velocity of 330 m/s from the top of a cliff 80 m high. With what velocity will it strike the ground?