## Tuesday, January 7/14 Physics 122/121

## No IS Today or Tomorrow

## Exam Review - Problem

1. Textbook: Page 646, #11-14 Textbook: Page 655, #20-24

Textbook: Page 678, 42-45, 47, 50

Textbook: Page 696, #4-10

#4. 4.00 V (text: 40.0 V)

#8. 75 s (text: 57 s)

Textbook: Page 708, #16-20 Textbook: Page 714, #21-26 Textbook: Page 719, #27-31

- 2. Parallel Circuits -> Continue
- 3. Textbook: Page 724, #32-35
- 4. Combination/Complex Circuits
- 5. Textbook: Page 728, #36-37 Page 749, #33-34

## **Exam Review - Problem**

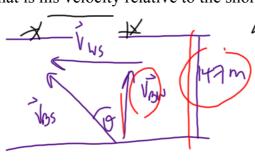
Concept: Relative belouily



A snorkeler who can swim 1.20 m/s in still water aims his body north directly across a 147 m wide river.

The current is 0.79 m/s west.

- a) How long will it take him to reach the other side?
- b) How far downstream (from a point opposite his starting point) will he land?
- c) What is his velocity relative to the shore?



$$V_{BS} = \sqrt{(1.20)^{2} + (0.75)^{2}}$$

$$V_{BS} = 1.4 m/5$$

$$\sqrt{6.75} = 0.75$$

$$\sqrt{6.75} = 0.75$$

$$\sqrt{6.75} = 33^{3}$$