

# Homework 6

SABIC: Physics

Due April 20, 2016

## Reading:

Read chapter 8.

## Problem 1: estimation

- (a) Estimate the force exerted on a golf ball by a driver hitting the ball 250m down the fairway. Assume the ball is in contact with the driver for 1ms.

## Problem 2: Conceptual

- (a) What hurts more: being hit by a basketball you catch, or one that bounces off your hands? why?
- (b) Question Q8.20 in the book.

## Problem 3: Linear momentum

- (a) Problem 8.50
- (b) Problem 8.69

## Problem 4: Impulse

- (a) Problem 8.12
- (b) Problem 8.96