

## Physics

Name: \_\_\_\_\_

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### Homework Set – Uniform Circular Motion

#### Section Outlines:

Read and outline § 5.1-5.7, pages 131-147

**Questions:** 1, 4, 5, 6, 8, 9, 11-13, 16

**Problems:** 1, 3, 6, 8, 11, 13, 22, 28, 31, 39, 47, 52, 54

Supplemental Problem: Find the critical velocity of a 25.0 g hot wheels car on a loop-the-loop track with radius of 15.0 cm (this is NOT extra credit).

#### Extra Credit (max of 5 pts)

Problems: 10, 19, 26, 35, 42

Outlines		10
Questions		11
Problems		19
<b>Total</b>		<b>40</b>