

Name _____

Section _____

T.A. _____

SCORE _____ /50

Homework #9

9.1) 2, 4, 6, 8, 10, 12, 14, 24, 29, 40,
46

9.2) 2, 4, 6, 8, 16, 20, 23, 54

Plus the additional problems

Due Friday, April 4th

Find a formula for the nth term of the following sequences:

1. $\{-1, \frac{1}{2}, \frac{-1}{4}, \frac{1}{8}, \frac{-1}{16}, \dots\}$

2. $\{1, 2, 6, 24, 120, \dots\}$

3. $\{-\frac{1}{2}, 1, -3, 12, -60, \dots\}$ hint: use previous

4. $\{\sqrt{2}, 1, \frac{\sqrt{6}}{3}, \frac{\sqrt{2}}{2}, \frac{\sqrt{10}}{5}, \dots\}$