Math 140 – Pre-Calculus Name_____
Section 10.2 Video Worksheet

Arithmetic Sequences

Arithmetic Sequences and Series

Definition of an Arithmetic Sequence

General Term of an Arithmetic Sequence

$s_n =$

The Sum of the First *n* Terms in of an Arithmetic Sequence

$a_1 = -7 \qquad d = 4$

$a_1 = -9 \qquad a_n = a_{n-1} + 6$

Find $a_{50} \qquad a_1 = 7 \quad d = 5$

Find $a_{60} \qquad a_1 = 35 \; d = -3$

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$7, 3, -1, -5, \ldots$ $a_1 = 4$ $a_n = a_{n-1} + 3$

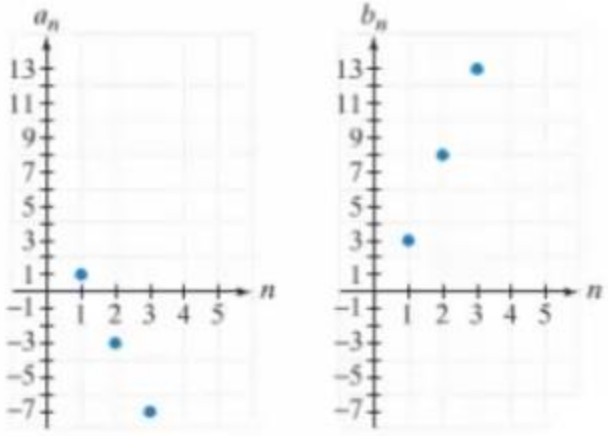
Find the sum of the first 20 terms

$4, 10, 16, 22, \ldots$

Sum of even integers between 21 and 45

$a_1 = 21$ $a_n = 45$

$\sum_{i=1}^{40} (-2_i + 6) =$



$a_{14} + b_{12}$