

3) (10 pts) ANL (Summation)

Determine the following summation in terms of n , **in factorized form**. (Do NOT multiply the answer out into polynomial form. Note: Your answer should NOT have a fraction in it. It should just be terms that are multiplied.)

$$\sum_{i=1}^{2n-1} (i + 3i^2)$$

Computer Science Foundation Exam

May 17, 2025

Section D

ALGORITHMS

**NO books, notes, or calculators may be used,
and you must work entirely on your own.**

PLEASE USE CAPITAL LETTERS IN WRITING YOUR NAME

Last Name: _____

First Name: _____

UCFID: _____

Question #	Max Pts	Category	Score
1	5	DSN	
2	10	DSN	
3	10	DSN	
TOTAL	25	----	

You must do all 3 problems in this section of the exam.

Problems will be graded based on the completeness of the solution steps and not graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all be neat. For each coding question, assume that all of the necessary includes (stdlib, stdio, math, string) for that particular question have been made.