

**3)** (5 pts) ANL (Summations)

Determine a closed form solution to the following summation in terms of **n**. Simplify your answer to standard polynomial form (not factored).

$$\sum_{i=1}^{3n} (2i + 5)$$

# Computer Science Foundation Exam

August 24, 2024

## 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.**