Name: $\qquad$
Math 123-02
Summer 2024
Dr. Lily Yen

## Assignment 1 <br> Show all your work

Number: $\qquad$
Signature: $\qquad$
Score: $\square$ /10
Problem 1: After reading Chapter 1 and doing exercises in the end of the chapter,
a. List the first 5 triangular numbers. Draw the figures to match the numbers.
b. List the first 5 square numbers. Draw the square numbers.
c. Decompose the square numbers in the figures to show that each square number is the sum of two consecutive triangular numbers.


$s_{2}=t_{2}+t_{1}$

$s_{3}=t_{3}+t_{2}$

$s_{4}=t_{4}+t_{3}$

$s_{5}=t_{5}+t_{4}$

