[Problem 3.1] (20 min)	
(i) Evaluate the nested fraction $\frac{1}{2/3}$	
(ii) Evaluate the nested fraction $\frac{1/2}{2/3}$	
(iii) Evaluate the nested fraction $\frac{\frac{1}{2/3}}{3/9}$	
(iv) Evaluate the nested fraction $\frac{\frac{1/2}{3/4}}{\frac{3/2}{3/4}}$	

[Problem 3.2] (20 min)

(i) Find the next 5 terms in the sequence: 0, 1, 4, 9, 16, 25, _, _, _, _, _

(ii) Find the next 5 terms in the sequence: 0, 2, 6, 12, 20, 30, _, _, _, _

(iii) Find the next 5 terms in the sequence: 0, 1, 5, 14, 30, 55, _, _, _, _, _

(iv) Find the next 5 terms in the sequence: 0, 1, 1, 2, 3, 5, 8, _, _, _, _, _, _,

(v) Find the next 5 terms in the sequence: 0, 13, 6, 19, 12, 5, _, _, _, _, _, _,

[Problem 3.3] (20 min)



Consider the following figure:

(i) How many triangles are there?

(ii) How many quadrilaterals are there?

[Problem 3.4] (20 min)

(i) What is the sum of the digits in the result of $5^2 * 2^2 * 3$?

(ii) What is the sum of the digits in the result of $(5 * 2)^2 * 3$?

(iii) What is the sum of the digits in the result of $5^5 * 2^5 * 3$?

(iv) What is the sum of the digits in the result of $5^5 * 2^8 * 3$?

(v) What is the sum of the digits in the result of $5^{105} * 2^{108} * 3$?

[Problem 3.5] (20 min)

Find the perimeter and area of the following figures:



