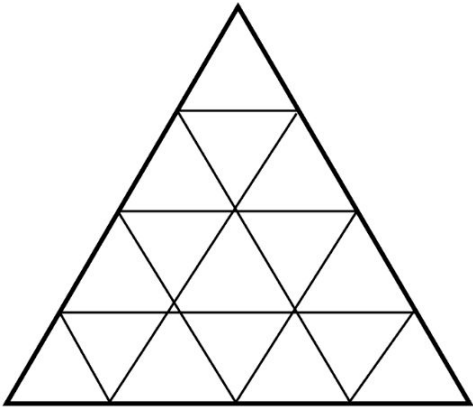[Problem 5.1]

(1) Find the next term in the sequence: 0, 1, 8, 27, 64, 125, _

(2) Find the next term in the sequence: 1/2, 1/4, 1/8, 1/16, 1/32, _

(3) Find the next term in the sequence: 1, 2, 2, 4, 8, 32, _

(4) Find the next term in the sequence: 1, 2, 2, 4, 8, 32, _

(5) Find the next term in the sequence: 2, 3, 5, 7, 11, 13, 17, _

(6) Find the next term in the sequence: 2, 3, 5, 7, 11, 13, 17, _

[Problem 5.2]

How many triangles?

[Problem 5.3]

Find the decimals for the following fractions:

(1) 1/9

(2) 4/99

(3) 5/999

(4) ⅔

(5) 4/33

(6) 7/333

[Problem 5.4]

I'm thinking of a number. What number am I thinking of?

(1) If you multiply the number by 3 and then subtract 2, you get 13.

(2) If you divide the number by 7 and then multiply by 5, you get 30.

(3) If you square the number and then add 1, you get 50.

(4) If you add 5 and then take the square root, you get 4.