

**Course: Geometry**

**Document:**

**LIVE Stream 1**

**Topic: Semester A Exam Review: Part 1**

**Reference Number:**

**2049-4**

**Subtopic:**

<https://youtube.com/c/MrMattTheTutor>



- 1) Determine the length of the missing line segment:
  - a. Line segment AC consists of line segments AB and BC. If AC is 10 and BC is 4, what is the length of AB?
  - b. Line segment AC consists of line segments AB and BC. If AB is 10 and BC is 4, what is the length of AC?

- 2) Find the midpoint between the following points:
  - a. (3,5) and (7,5)
  - b. (2,4) and (6,10)

3) Find the distance between the following points:

- a. (1,2) and (5,8)
- b. (3,1) and (9,5)

4) Calculate the area of the following shapes:

- a. A rectangle with vertices of A(3,5), B(3,10), C(15,10), and D(15,5)
- b. A triangle with vertices of A(4,2), B(5,8), and C(8,2)
- c. A square with vertices of A(2,4), B(8,4), C(8,10), and D(2,10)

5) Determine the length of the missing line segment:

- a. Line segment DF consists of line segments DE and EF. If DE is 6 and DF is 14, what is the length of EF?
- b. Line segment DF consists of line segments DE and EF. If DE is 12 and EF is 8, what is the length of AB?

- 6) Find the midpoint between the following points:
- a.  $(5,6)$  and  $(13,12)$
  - b.  $(-9,11)$  and  $(7,15)$

- 7) Find the distance between the following points:
- a.  $(8,3)$  and  $(-6,9)$
  - b.  $(4,-6)$  and  $(-12,8)$