## EE24BTECH11024 - G. Abhimanyu Koushik

## **Question:**

Two sides of a triangle are of length 5cm and 1.5cm. The length of the third side of the triangle cannot be

- a. 3.6cm
- b. 4.1*cm*
- c. 3.8cm
- d. 3.4cm

## **Solution:**

Symbol	Description
а	side of length 5cm
b	side of length 1.5cm
С	length of third side

TABLE 4: Variables Used

For any triangle the difference of length of two sides should not be greater than the third side.

$$|a - b| \ge c \tag{1}$$

$$3.5cm \ge c \tag{2}$$

c cannot be 3.4cm

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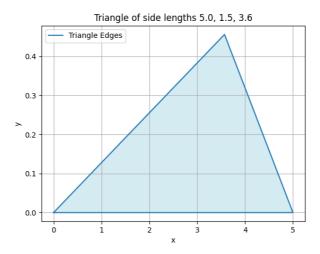


Fig. 4: Triangle with sides 5cm, 1.5cm, and 3.6cm

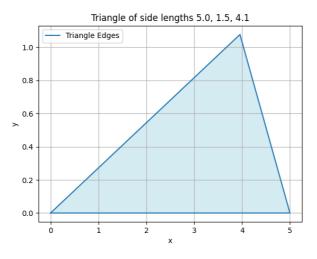


Fig. 4: Triangle with sides 5cm, 1.5cm, and 4.1cm

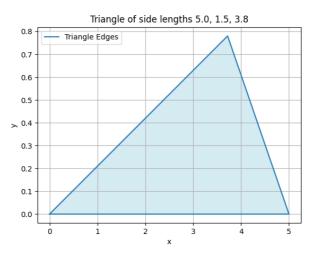


Fig. 4: Triangle with sides 5cm, 1.5cm, and 3.8cm