



---

# FIND TRIANGLE TYPE

---

Test Cases



ABDUL AZIZ (FA21-BSE-058)

### Question:

Make test cases for a triangle that can differentiate between isosceles, equilateral, and scalene types based on sides length as input and state if their verdict is true/false. Make assumptions for actual outcome.

### Answer:

The Triangle has 3 sides which are:

1. Base
2. Hypotenuse
3. Perpendicular

### UI:

The UI mockup features a light gray background. At the top, the title 'Find Triangle Type' is displayed in a large, bold, black font. Below the title, a purple subtitle reads 'Please enter sides of a triangle'. Underneath the subtitle, there are three rounded rectangular input fields with purple borders, labeled 'Base', 'Hypo', and 'Perp' in purple text. At the bottom of the form, there is a large, dark gray rounded rectangular button with the word 'Calculate' in white text.

### Test Cases:

Test Case	Test Case Description	Input Data	Expected Outcome	Actual Outcome	Status
TC_01	Test Equilateral Triangle	base=5, hypo=5, perp=5	Equilateral triangle		
TC_02	Test Isosceles Triangle	base=5, hypo=5, perp= 6	Isosceles triangle		

## Find Triangle Type

<b>TC_03</b>	Test Scalene Triangle	base=3, hypo=4, perp=5	Scalene triangle		
<b>TC_04</b>	Test Invalid Triangle (Sum of two sides equals the third side)	base=7, hypo=3, perp=10	Invalid triangle		
<b>TC_05</b>	Test Invalid Triangle (One side is greater than the sum of the other two)	base=1, hypo=1, perp=3	Invalid triangle		
<b>TC_06</b>	Test Invalid Triangle (One side is 0)	base=0, hypo=3, perp=3	Invalid triangle		
<b>TC_07</b>	Test Invalid Triangle (One side is negative)	base=-2, hypo=5, perp=6	Invalid triangle		
<b>TC_08</b>	Test Invalid Triangle (All sides are 0)	base=0, hypo=0, perp=0	Invalid input, All side are 0.		
<b>TC_09</b>	Test Invalid Triangle (All sides are negative)	base=-3, hypo=-4, perp=-5	Invalid input, Sum of all side should be positive.		
<b>TC_10</b>	To check that if any side entered is not an integer.	base=a, hypo=3, perp=2  base=7, hypo=a, perp=9  base= 7, hypo=9, perp=a	Invalid Input, please enter an integer input.		