<!DOCTYPE html>

<html>

<head>

<title>Type your Page Title here.</title>

<script type="text/javascript">

function triangle() {

var A = parseInt(document.sides.A.value);//converts input for side A to integer

var B = parseInt(document.sides.B.value);//converts for side B

var C = parseInt(document.sides.C.value);//converts for side C

var sideAsqrd = parseInt(document.sides.A.value) \* parseInt(document.sides.A.value);//side A squared for pythagorean theorem

var sideBsqrd = parseInt(document.sides.B.value) \* parseInt(document.sides.B.value);//side B squared

var sideCsqrd = parseInt(document.sides.C.value) \* parseInt(document.sides.C.value);//side C squared

var AB = parseInt(document.sides.A.value) + parseInt(document.sides.B.value);//side A + B to check if a triangle can be formed

var AC = parseInt(document.sides.A.value) + parseInt(document.sides.C.value);//side A + C

var BC = parseInt(document.sides.B.value) + parseInt(document.sides.C.value);//side B + C

var A2B2 = sideAsqrd + sideBsqrd;

var A2C2 = sideAsqrd + sideCsqrd;

var B2C2 = sideBsqrd + sideCsqrd;

if ((AB > C) && (AC > B) && (BC > A)) {

window.alert("These numbers could form a triangle.");

}

if ((sideAsqrd == B2C2) || (sideBsqrd == A2C2) || (sideCsqrd == A2B2)) {

/\*window.alert("These numbers could also form a right triangle.");\*/

}

else {

window.alert("These 3 sides can not form a triangle.");

}

}

</script>

</head>

<body>

<h1>Is it a Valid Triangle?</h1>

<form action="" name="sides">

<p>Enter side X:

<input type="text" name="A" ><br />

<p>Enter side Y:

<input type="text" name="B" ><br />

<P>Enter side Z:

<input type="text" name="C" ><br />

<input type="button" value="Get Result"

onclick="triangle();">

</p>

</form>

</body>

</html>