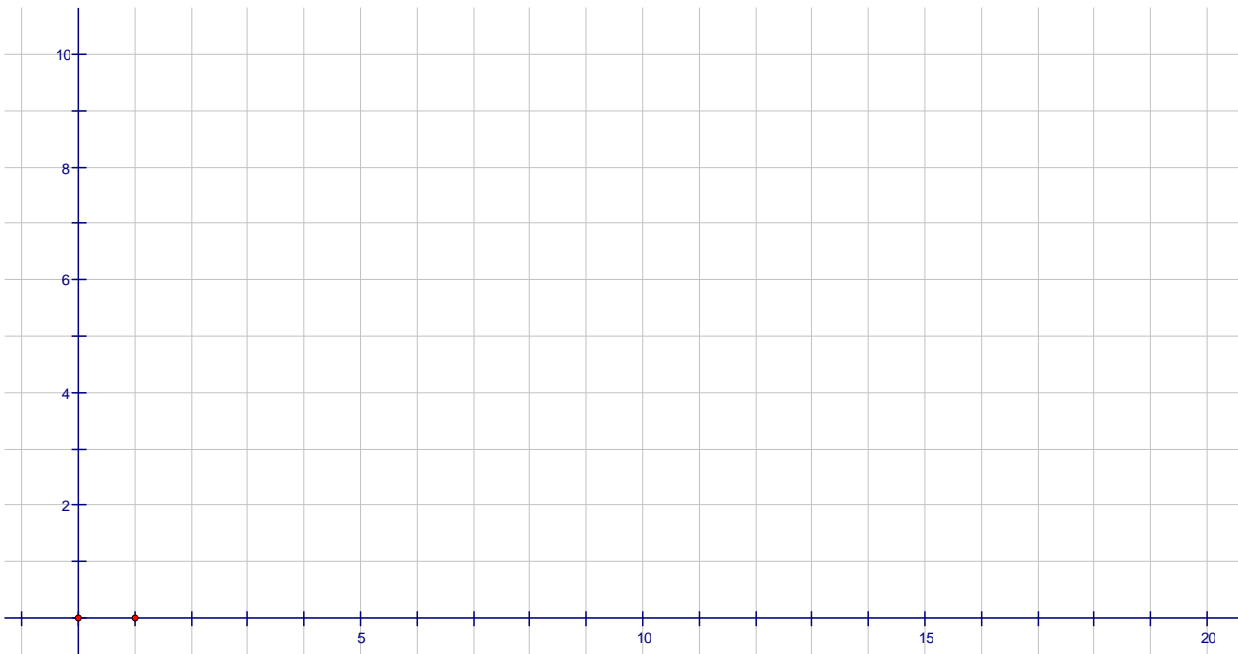


Geometry – Unit 8 Task
Pythagorean Check-Up

G.SRT.B.4

Name: _____ !

Date: _____ Pd: _____



On the coordinate grid above, complete the following questions:

- 1) Graph the points $A(0,3)$ and $B(4,0)$ as the hypotenuse of a right triangle located with right angle at the origin, point C . Use the distance formula to find the length of the hypotenuse, \overline{AB} . Show all work in the table below.
- 2) Then, count the side lengths and calculate the length of the hypotenuse using the Pythagorean Theorem. Show all work in the table below.

1) Distance Formula	2) Pythagorean Theorem

On the coordinate grid above;

- 3) Graph a right triangle with hypotenuse length $\sqrt{17}$. Label it $\triangle DEF$.
- 4) Graph a right triangle with hypotenuse length $\sqrt{34}$. Label it $\triangle GHI$.
- 5) What is the length of the shortest hypotenuse that can be drawn if the legs of the right triangle must be integer values?

