

Geometry EOC Item Specifications
Florida Standards Assessments

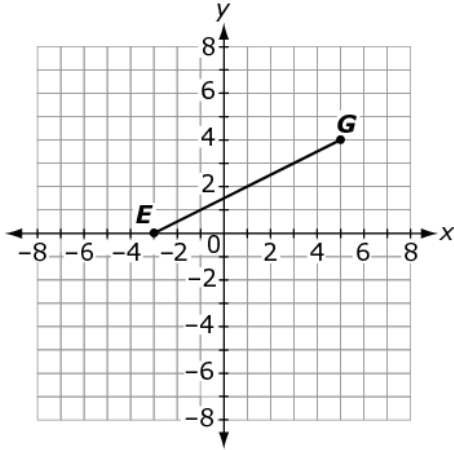
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|--------------------|---|
| MAFS.912.G-GPE.2.4 | Use coordinates to prove simple geometric theorems algebraically. <i>For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point $(1, \sqrt{3})$ lies on the circle centered at the origin and containing the point $(0, 2)$.</i> |
| Item Types | <p>Editing Task Choice – May require choosing a statement in an informal argument.</p> <p>Equation Editor – May require showing steps of an algebraic proof.</p> <p>GRID – May require graphically showing that a set of points does or does not create a specified polygon.</p> <p>Multiple Choice – May require selecting from choices.</p> <p>Open Response – May require writing an informal argument or explanation.</p> |
| Clarification | Students will use coordinate geometry to prove simple geometric theorems algebraically. |
| Assessment Limits | <p>Items may require the student to use slope or to find the distance between points.</p> <p>Items may require the student to prove properties of triangles, properties of quadrilaterals, properties of circles, and properties of regular polygons.</p> <p>Items may require the student to use coordinate geometry to provide steps to a proof of a geometric theorem.</p> |
| Stimulus Attribute | Items may be set in a real-world or mathematical context. |
| Response Attribute | Items may require the student to determine if the algebraic proof is correct. |
| Calculator | Neutral |

Sample Item

Item Type

Editing Task Choice

One diagonal of square $EFGH$ is shown on the coordinate grid.



There are two highlights in the sentence to show which word or phrase may be incorrect. For each highlight, click the word or phrase that is correct.

The location of point F could be ? because diagonals of a square are congruent and ? .