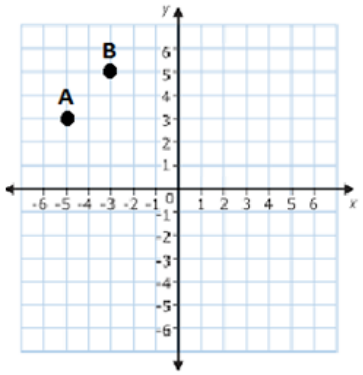
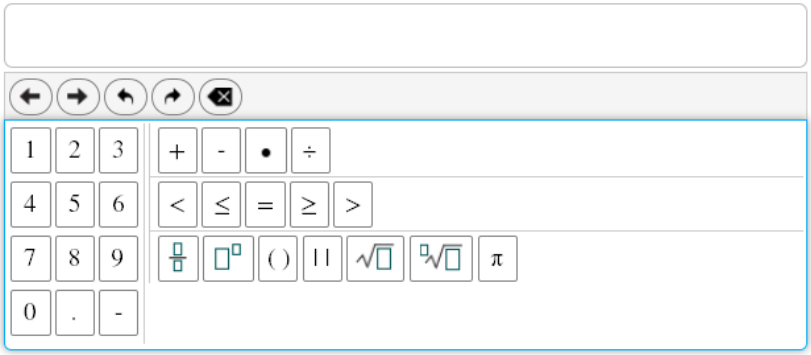
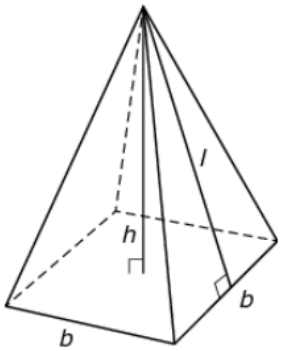
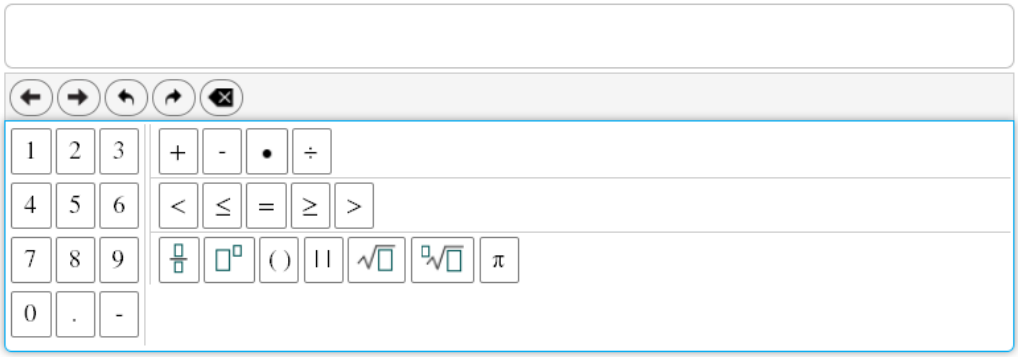
Content Standard	***MAFS.8.G*** *Geometry* ***MAFS.8.G.2*** *Understand and apply the Pythagorean Theorem.* ***MAFS.8.G.2.7*** Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions. Also Assessed: ***MAFS.8.G.2.8*** Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
Assessment Limits	If the triangle is part of a three-dimensional figure, a graphic of the three-dimensional figure must be included. No coordinate plane items should be included. Points on the coordinate grid must be where grid lines intersect.
Calculator	Yes
Item Types	Equation Editor GRID Matching Item Multiple Choice Multiselect
Context	Allowable

Sample Item	Item Type
Triangle ABC is a right triangle. The lengths of the legs are 60 centimeters and 80 centimeters. What is the length, in centimeters, of the hypotenuse?	Equation Editor
Triangle ABC is a right triangle. The length of one leg is 80 centimeters, and the hypotenuse is 120 centimeters. What is the length, in centimeters, of the other leg?	Equation Editor
Two points are on the coordinate plane shown.  What is the distance between A (-5, 3) and B (-3, 5)?	Equation Editor

Sample Item	Item Type
What is the distance, in units, between $A\ (-1,\ 3)$ and $B\ (3,\ 5)$?  	Equation Editor
A right square pyramid is shown.  The base has a side length, *b*, of 30 centimeters (cm). The height, *h*, is 10 cm. What is the length, in centimeters, of *l* ?  	Equation Editor