

Using coordinate Geometry

6.12

1. a) Graph and label the triangle with vertices P(-2,2), H(2,-3) and S(4,2).
b) Determine whether $\triangle PHS$ is scalene, isosceles, or equilateral.

SHOW WORK AND JUSTIFY YOUR ANSWER.

PH =

HS =

PS =

$\triangle PHS$ is _____ because _____.

- c) Determine whether $\triangle PHS$ is a right triangle.

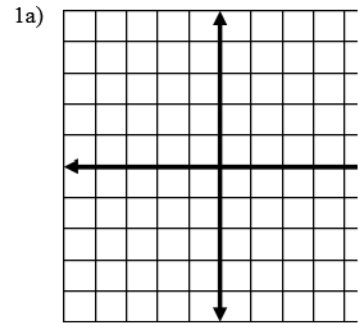
SHOW WORK AND JUSTIFY YOUR ANSWER.

Slope of \overline{PH} =

Slope of \overline{HS}

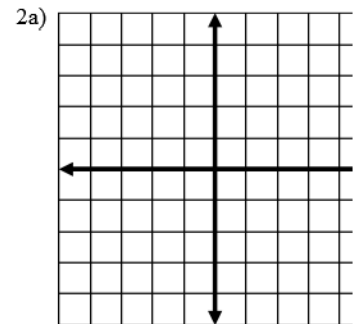
Slope of \overline{PS}

$\triangle PHS$ is _____ because _____.



2. a) Graph and label the triangle with vertices P(-4,-2), H(0,3) and S(4,-2).
b) Determine whether $\triangle PHS$ is scalene, isosceles, or equilateral.

SHOW WORK AND JUSTIFY YOUR ANSWER.



- c) Determine whether $\triangle PHS$ is a right triangle.

SHOW WORK AND JUSTIFY YOUR ANSWER.