

Using coordinate Geometry

6.14

1. a) Graph and label the triangle with vertices X(-2, 3), Y(5, 5) and Z(4, 10).

1a)

b) Determine whether $\triangle XYZ$ is scalene, isosceles, or equilateral.

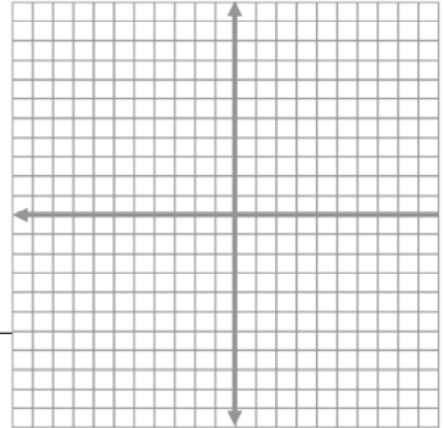
SHOW WORK AND JUSTIFY YOUR ANSWER.

$XY =$

$\frac{YZ}{ZX} =$

$ZY =$

$\triangle XYZ$ is _____ because _____



c) Determine whether $\triangle XYZ$ is a right triangle.

SHOW WORK AND JUSTIFY YOUR ANSWER.

Slope of $\overline{XY} =$

Slope of \overline{YZ}

Slope of \overline{ZY}

$\triangle XYZ$ is _____ because _____.

2. a) Graph and label the triangle with vertices A(3, 2), B(-10, 4) and C(-5, 8).

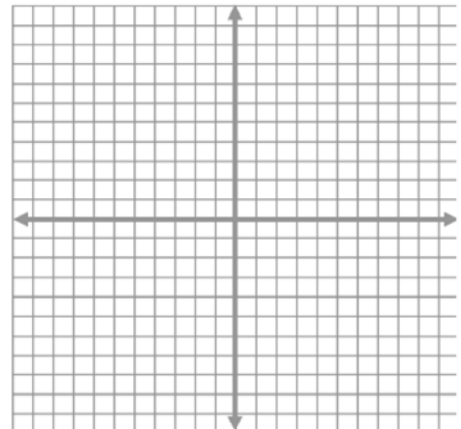
2a)

b) Determine whether $\triangle ABC$ is scalene, isosceles, or equilateral.

SHOW WORK AND JUSTIFY YOUR ANSWER.

c) Determine whether $\triangle ABC$ is a right triangle.

SHOW WORK AND JUSTIFY YOUR ANSWER.



Using coordinate Geometry

6.15

1. a) Graph and label the quadrilateral with the given vertices: P(-5,0), Q(-3,2), R(3,2), S(5,0).

b) Then determine the most precise name for the quadrilateral.

SHOW WORK AND JUSTIFY YOUR ANSWER.

PQ =

QR =

RS =

SP =

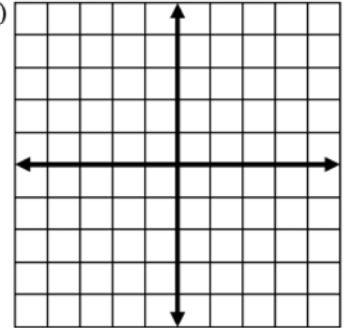
Slope of \overline{PQ} =

Slope of \overline{QR} =

Slope of \overline{RS} =

Slope of \overline{SP} =

1 a)



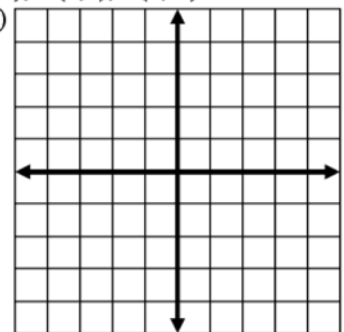
The quadrilateral is a _____
because

2. a) Graph and label the quadrilateral with the given vertices: W(-1,1), X(0,2), Y(1,1), Z(0,-2).

b) Then determine the most precise name for the quadrilateral.

SHOW WORK AND JUSTIFY YOUR ANSWER.

2 a)



b) _____