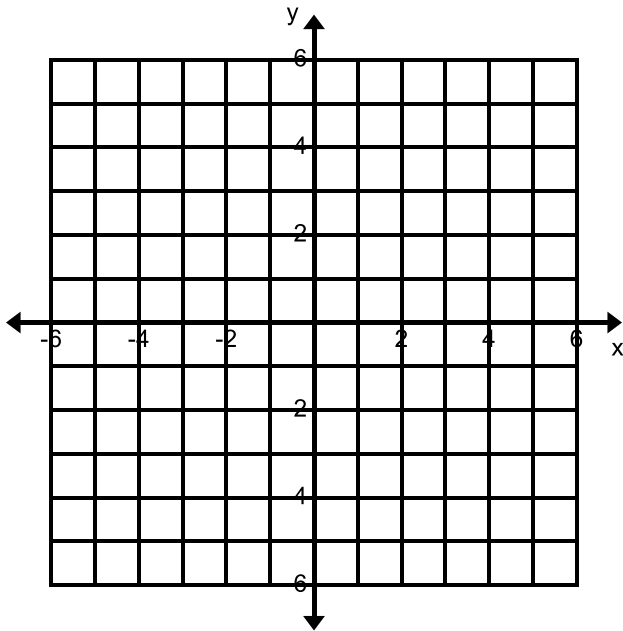


Unit 8 Day 6 - Elbow Grease Classwork

Draw quadrilateral QRST with Q(-4,2), R(-1,4), S(2,2), and T(-1,-1).



b. What are the slopes of each of the sides?

Slope of \overline{QR} =

Slope of \overline{RS} =

Slope of \overline{ST} =

Slope of \overline{QT} =

c. What are the slopes of the diagonals?

Slope of \overline{QS} =

Slope of \overline{RT} =

Decide which properties will help you classify the quadrilateral. (You don't have to complete all the information, just as much as you need to identify the quadrilateral.) Show your work in the appropriate places.

a. What are the lengths of each side?

QR =

RS =

ST =

QT =

d. What are the lengths of the diagonals?

QS =

RT =

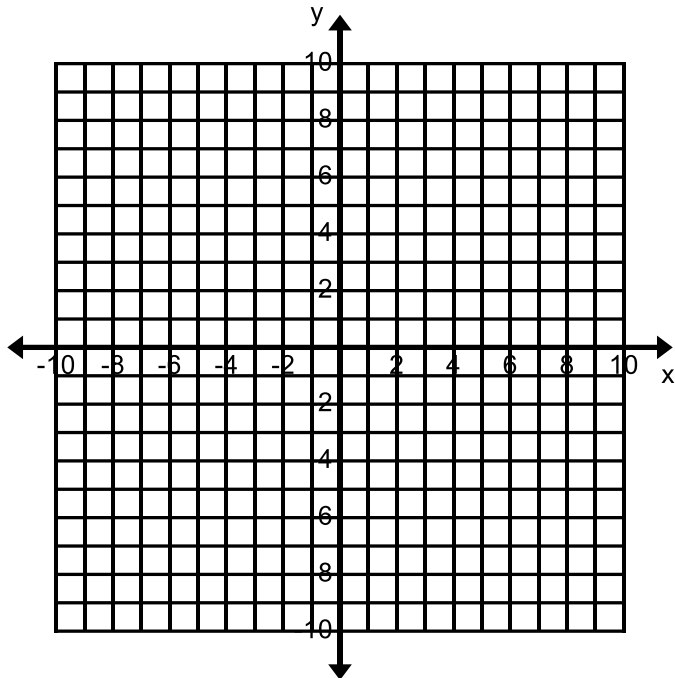
e. What is the midpoint of the diagonals?

Midpoint of \overline{QS} =

Midpoint of \overline{RT} =

f. Based on your findings, what type of quadrilateral is QRST?

Draw quadrilateral MIST with M(-4,1), I(2,4), S(8,1), and T(2,-2).



Decide which properties will help you classify the quadrilateral. (You don't have to complete all the information, just as much as you need to identify the quadrilateral.) Show your work in the appropriate places.

a. What are the lengths of each side?

MI=

IS=

ST=

TM=

b. What are the slopes of each of the sides?

Slope of \overline{MI} =

Slope of \overline{IS} =

Slope of \overline{ST} =

Slope of \overline{TM} =

c. What are the slopes of the diagonals?

Slope of \overline{MS} =

Slope of \overline{IT} =

d. What are the lengths of the diagonals?

MS=

IT =

e. What is the midpoint of the diagonals?

Midpoint of \overline{MS} =

Midpoint of \overline{IT} =

f. Based on your findings, what type of quadrilateral is MIST?

