

Topic 19 Problem Set

1) Given rectangle ABCD with the following information:

Segment AB = $2x-7$

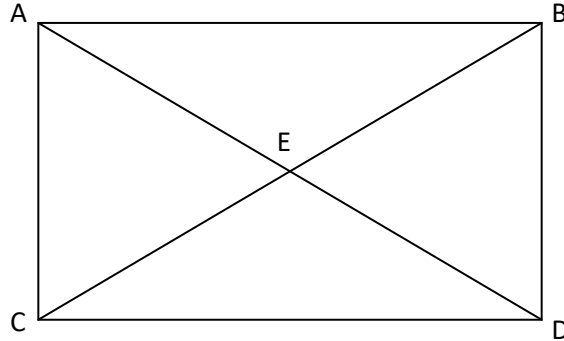
Segment BD = $3y+13$

Segment AC = $4y+12$

Segment CD = $3x-20$

Segment CE = $5z+14$

Segment CB = $20z+8$



What are the lengths of:

Segment AB =

Segment BD =

Segment AC =

Segment CD =

Segment CE =

Segment BE =

Segment AE =

Segment DE =

Segment CB =

Segment AD =

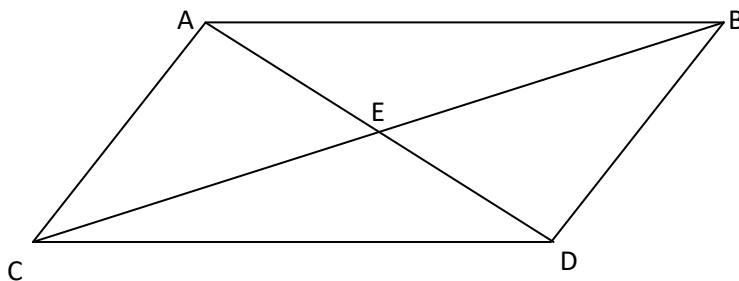
2) Given Parallelogram ABCD with the following information:

Segment AE = $2x+13$

Segment ED = $3x+4$

Segment AC = $4x+15$

Segment CD = $5x+6$



What are the lengths of:

Segment CE =

Segment BE =

Segment AE =

Segment DE =

Segment CB =

Segment AD =

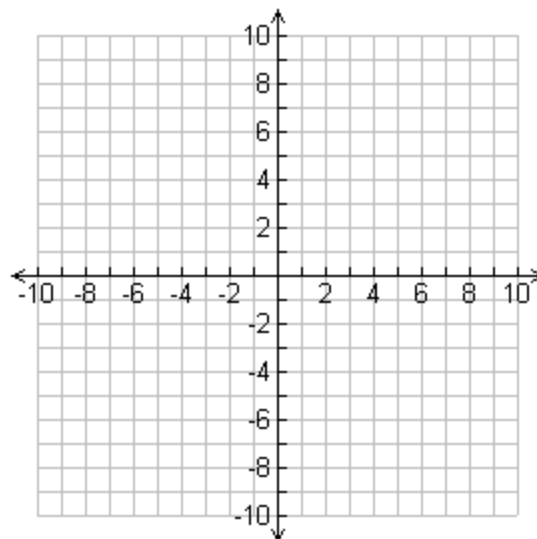
3) Given points A (-2, 4) B (4,7) C (1,-2) D (7,1)

a) Do the diagonals meet at a right angle? Why?

b) Do the diagonals bisect each other? Why?

c) What shape is this? Why?

d) What is the perimeter of the shape?



4) Given points A (-4, 2) B (7,2) C (-6,-4) D (5,-4)

a) Do the diagonals meet at a right angle? Why?

b) Do the diagonals bisect each other? Why?

c) What shape is this? Why?

d) What is the perimeter of the shape?

