Name: ___

2)

CC Geometry Homework

Area and Perimeter in the Coordinate Plane

1) In the accompanying figure, $\triangle ABC$ has coordinates A(0,3), B(7,3), and C(7,7).



What is the area of $\triangle ABC$ in square units?

The vertices of square RSTV have coordinates

perimeter of RSTV?

A) $4\sqrt{40}$

B) $4\sqrt{20}$

R(-1,5), *S*(-3,1), *T*(-7,3), and *V*(-5,7). What is the

C) $\sqrt{20}$

D) $\sqrt{40}$

A)	20	C) 16
D)	14	D) 12

B) 14 D) 12

3) Using the coordinate grid below, find the area of a triangle whose vertices are A(3,4), B(1,-3), and C(-3,-1). [*Show all work*.]



4)

Triangle *ABC* has vertices A(-3,-4), B(-1,6) and C(3,5). Using the coordinate grid below, find the area of $\triangle ABC$. [*Show all work*.]



5) Using the coordinate grid below, find the area of quadrilateral *ABCD* with vertices A(-4,2), B(0,5), C(3,3), and D(1,-5). [*Show all work*.]

6) Using the coordinate grid below, find the area of pentagon *ABCDE* whose vertices are A(-3,-1), B(-2,2), C(2,2), D(1,-1), and E(-1,-2). [*Show all work*.]

1) B 2) B

3) 16 units^2



4) 19 units^2



5) 35.5 units^2



6) 14 units²

