

FINDING AREA USING THE COORDINATE PLANE

Directions: Read each of the following problems and use the Cartesian coordinate plane on the next page to answer each of the following questions.

- 1) Plot the following ordered pairs. What is the area of the resulting shape?
- 2) Plot the following ordered pairs and connect the points in the order listed below. Calculate the area of the resulting quadrilateral.

(3,3) (8,3) (8,7)

(-8,-2) (2,-2) (4,-5) (-6,-5)

- 3) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.
- 4) Plot the following ordered pairs and find the area of the resulting triangle.

(-13,2)(-13,7) (-10,11) (-6,7) (-6,2)

(0,10) (4,14) (8,10)

- 5) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.
- 6) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.

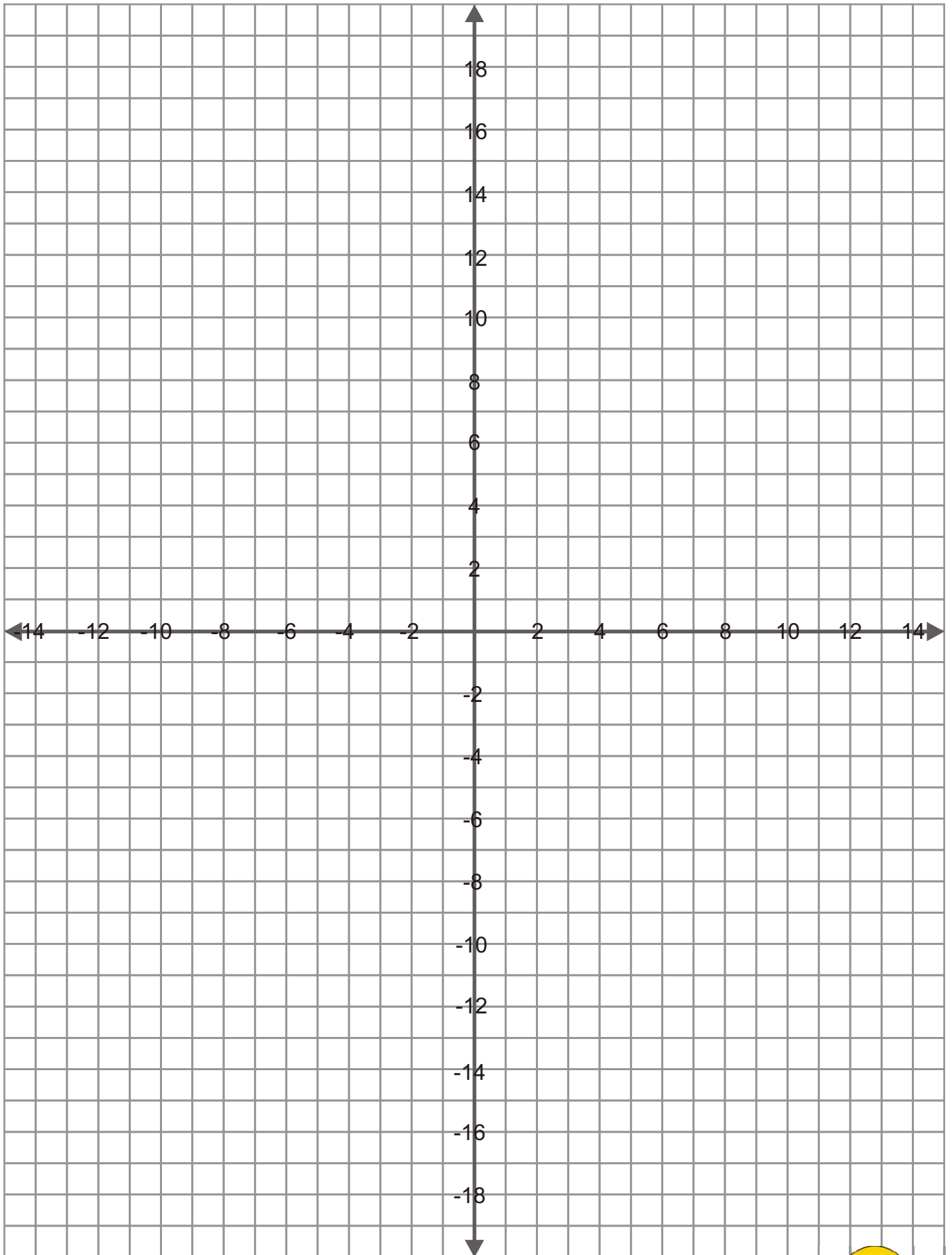
(-5,-18) (-5,-12) (-2,-12) (-2,-9) (4,-9) (4,-18)

(6,-7) (8,-5) (10,-7) (12,-5) (14,-7) (10,-15)

- 7) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.
- 8) Plot the following ordered pairs and find the area of the resulting shape.

(-12,13) (-12,18) (-4,18) (-4,13) (-8,16)

(-14,-8) (-4,-8) (-14,-18)



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Directions: Read each of the following problems and use the Cartesian coordinate plane on the next page to answer each of the following questions.

- 1) Plot the following ordered pairs. What is the area of the resulting shape?

(3,3) (8,3) (8,7)

Area = 10 units²

- 2) Plot the following ordered pairs and connect the points in the order listed below. Calculate the area of the resulting quadrilateral.

(-8,-2) (2,-2) (4,-5) (-6,-5)

Area = 30 units²

- 3) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.

(-13,2) (-13,7) (-10,11) (-6,7) (-6,2)

Area = 49 units²

- 4) Plot the following ordered pairs and find the area of the resulting triangle.

(0,10) (4,14) (8,10)

Area = 16 units²

- 5) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.

(-5,-18) (-5,-12) (-2,-12) (-2,-9) (4,-9) (4,-18)

Area = 72 units²

- 6) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.

(6,-7) (8,-5) (10,-7) (12,-5) (14,-7) (10,-15)

Area = 40 units²

- 7) Plot the following ordered pairs and connect the points in the order given. Calculate the area of the resulting polygon.

(-12,13) (-12,18) (-4,18) (-4,13) (-8,16)

Area = 28 units²

- 8) Plot the following ordered pairs and find the area of the resulting shape.

(-14,-8) (-4,-8) (-14,-18)

Area = 50 units²

