



# FUN GEOMETRY

## THE MYSTERY POLYGON



BOOK 4

Book 3

Fun Geometry – The Mystery Polygon!

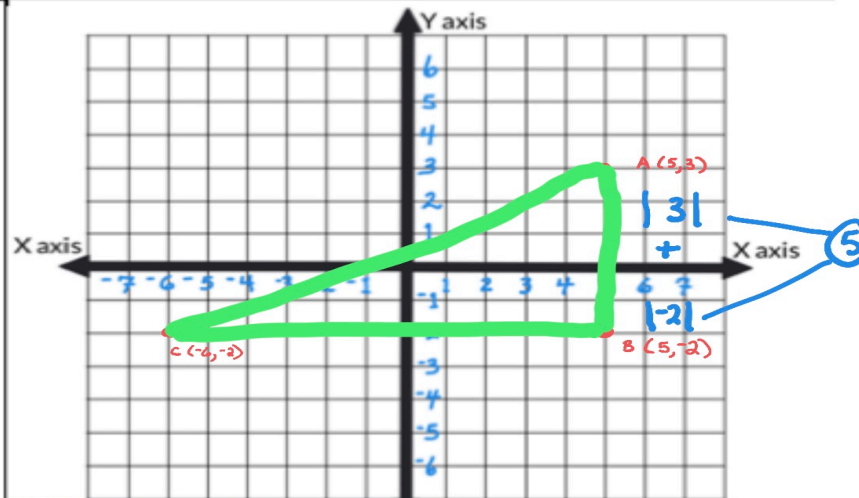
Challenge 1

Alan Clintock the Animal Collector just caught Rocky Raccoon. Rocky was relaxing on his porch swing when Alan snuck up from behind, swooped Rocky up in his net, and trapped within this coordinate grid.

Only you can save Rocky Raccoon. Solve the following questions and Alan Clintock will have to return Rocky Raccoon to his comfortable porch swing.

- Graph the following points.  
 $A = (5, 3)$   
 $B = (5, -2)$   
 $C = (-6, -2)$
- Connect all points, going in alphabetical order.
- What is the distance from point A to point B? **5 units**
- What kind of polygon is Rocky Raccoon trapped within?

Right Triangle  
Perpendicular Triangle



$$\begin{array}{r} \text{x} \quad \text{y} \\ A(5, 3) \\ B(5, -2) \\ \hline 0 + 5 \\ 5 \text{ Units} \end{array}$$



Photo by Mike Bolling

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**Watch Me Problem**  
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# THE MYSTERY POLYGON



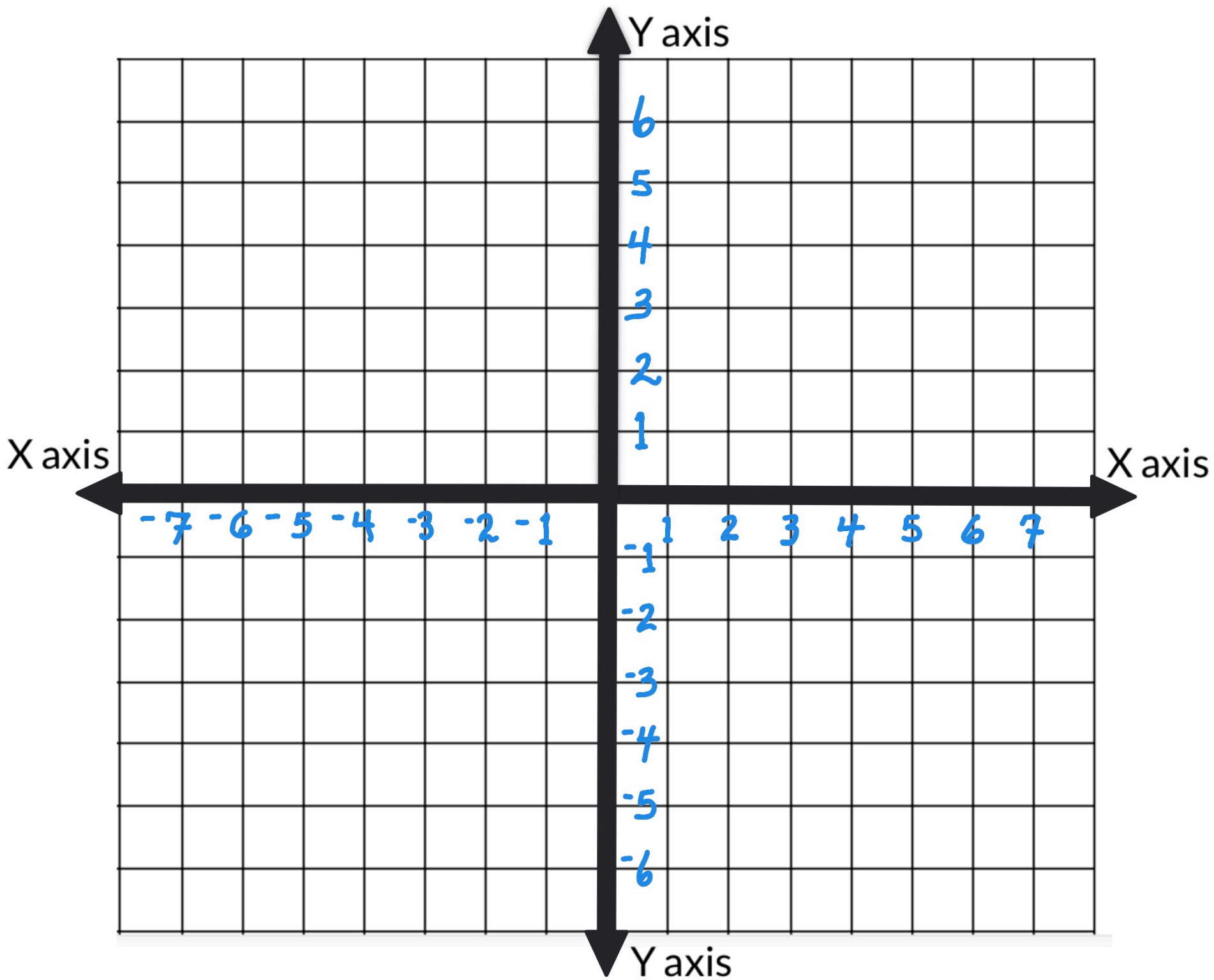
## HOW TO USE THIS BOOK

### Teachers

- Upload this PDF into your Google Classroom and use individually or in centers.
- If your students need grid paper - Print the graph paper from the following page.

### Students

- Complete each problem.
- Correct your own work, while watching the video tutorials.
- After correcting your work, take your paper to your teacher for a final check.



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Book 4

Challenge 1

Alan Clintock the Animal Collector just caught Rocky Raccoon. Rocky was relaxing on his porch swing when Alan snuck up from behind, swooped Rocky up in his net, and trapped within this coordinate grid.

Only you can save Rocky Raccoon. Solve the following questions and Alan Clintock will have to return Rocky Raccoon to his comfortable porch swing.

1. Graph the following points.

$$A = (5, 3)$$

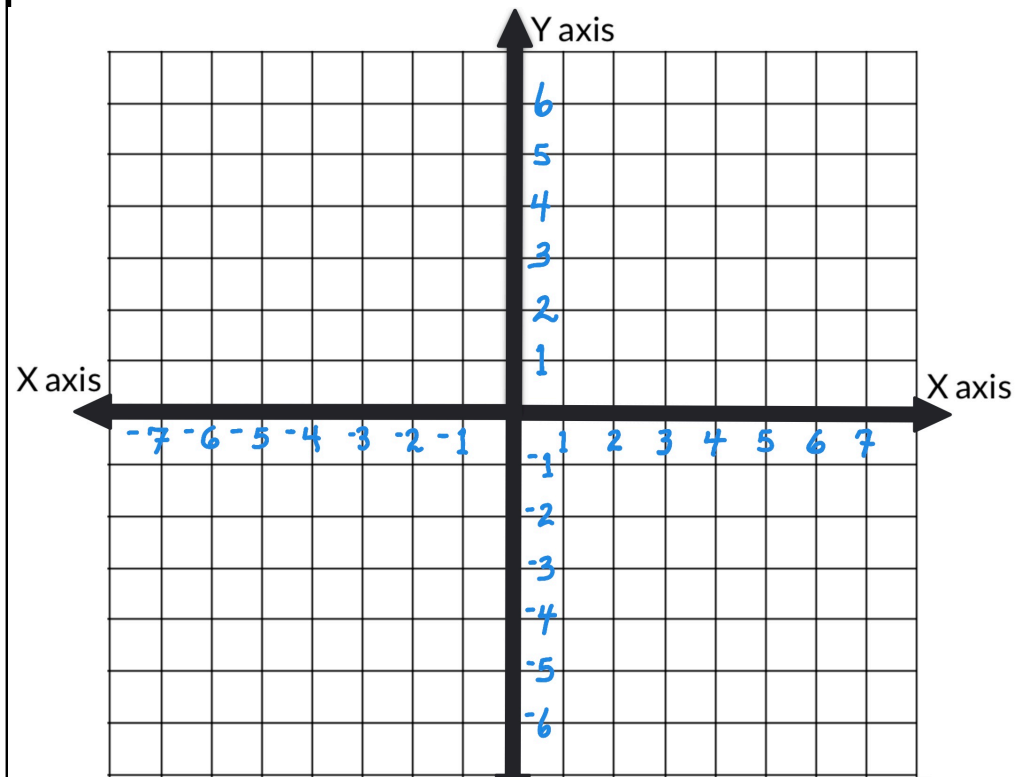
$$B = (5, -2)$$

$$C = (-6, -2)$$

2. Connect all points, going in alphabetical order.

3. What is the distance from point A to point B?

4. What kind of polygon is Rocky Raccoon trapped within?



axis

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Challenge 2

Horas the Hoarder loves collecting animals. He trapped Oscar Orangutan when he was playing hide 'n seek with his friend Zeek. Now, Oscar Orangutan is trapped within this coordinate grid. You are Oscar's only hope. Solve the following questions and Horas the Hoarder will have to return Oscar Orangutan to his hide 'n seek game.

- Graph the following points.  
A = ( 0, 4 )  
B = ( -4, 2 )  
C = ( -3, -2 )  
D = ( 3, -2 )  
E = ( 4, 2 )
- Connect all points, going in alphabetical order.
- What is the distance from point C to point D?
- What kind of polygon is Oscar Orangutan trapped within?

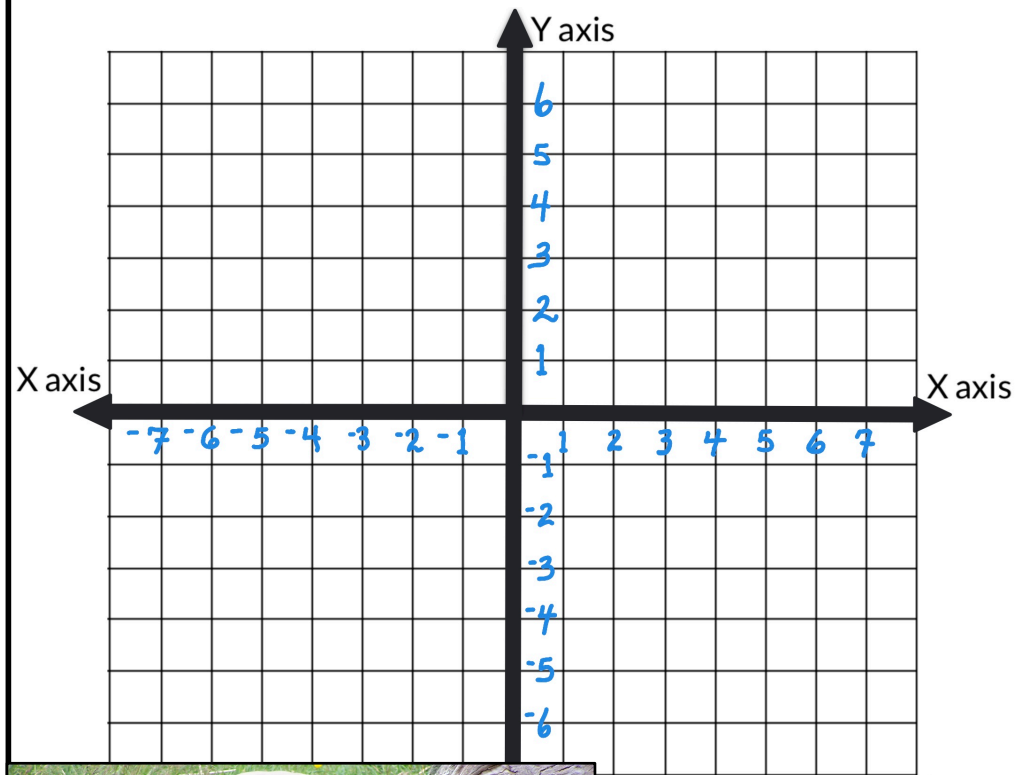


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Challenge 3

Malevolent Myrdal is plain old evil. She traps animals for the fun of it. Myrdal trapped Albert Baboon Einstein just as he was about to solve the problem of global warming.

Will you help Albert Baboon Einstein escape this coordinate grid? Solve the following questions and Malevolent Myrdal will have to return Albert to his contemplation.

1. Graph the following points.

$$A = (-7, -7)$$

$$B = (-5, -2)$$

$$C = (7, -2)$$

$$D = (5, -7)$$

2. Connect all points, going in alphabetical order.

3. What is the distance from point A to point D?

4. What kind of polygon is Albert Baboon Einstein trapped within?

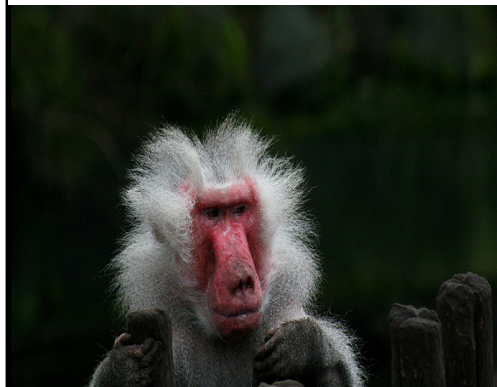
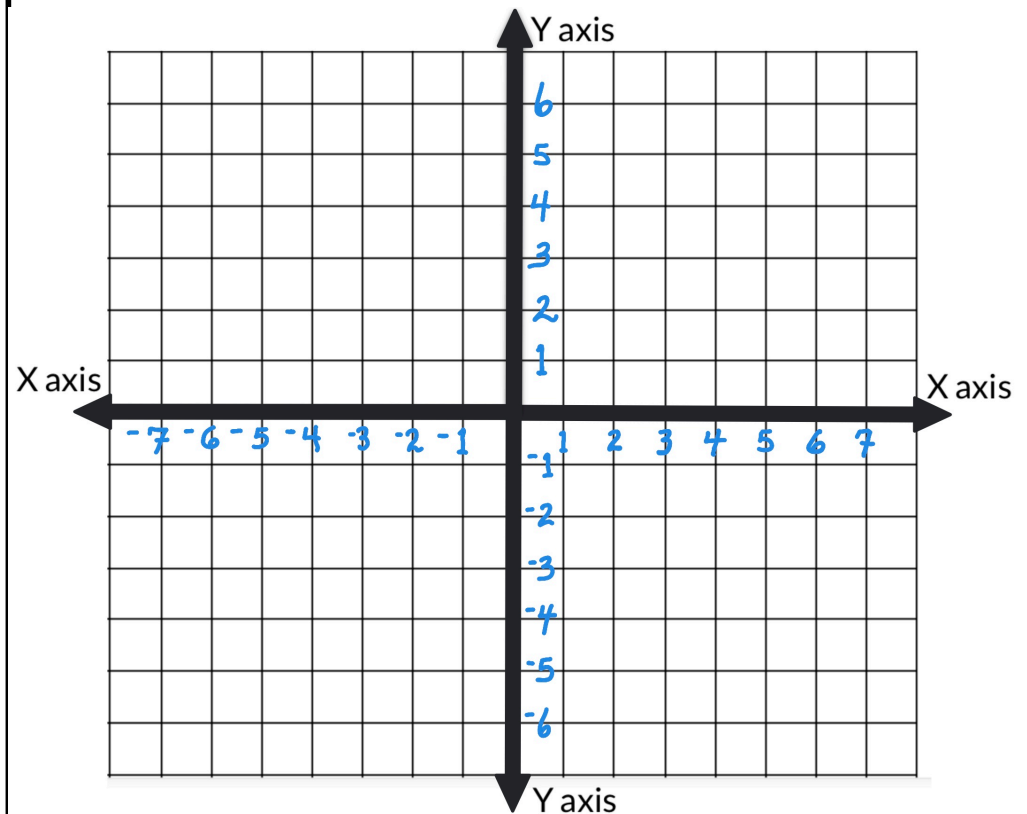


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Challenge 4

Waldron the Wizarding Wizard used his magic to trap Croaking Craig the Forlorn Bullfrog. Croaking Craig was just about to propose to his girlfriend when Waldron's magic spirited him away. Only you can stop the madness. Solve the following questions and Waldron's magic spell will diminish, releasing Croaking Craig the Forlorn Bullfrog from this coordinate grid. Can you reunite with Croaking Craig with his girlfriend, so he can be happy once more?

- Graph the following points.  
 $A = (-4, 3)$   
 $B = (-4, -2)$   
 $C = (6, -2)$
- Connect all points, going in alphabetical order.
- What is the distance from point A to point B?
- What kind of polygon is Croaking Craig trapped within?

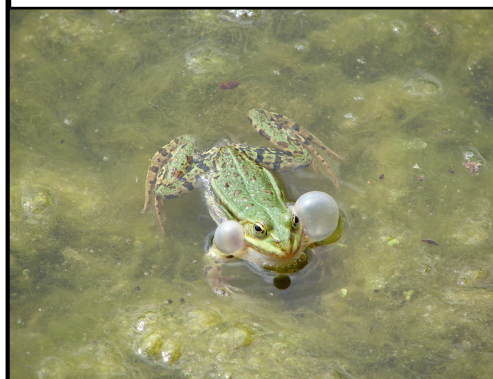
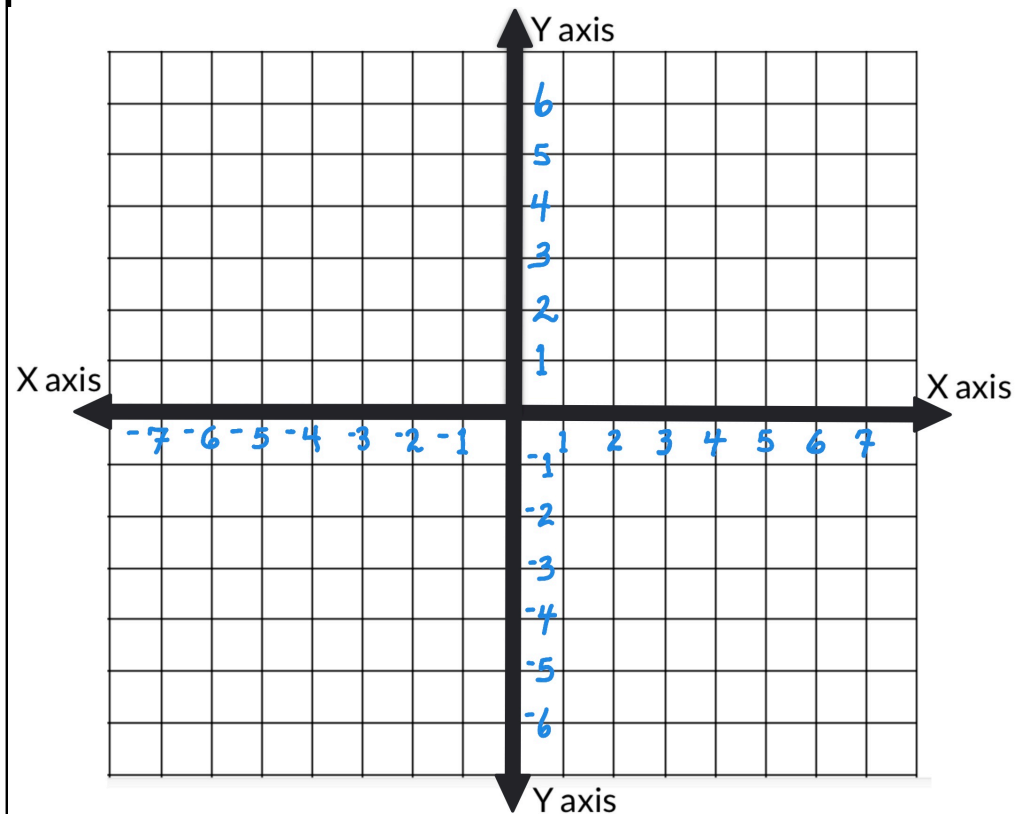


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Book 4

Challenge 5

Alan Clintock the Animal Collector just caught Enzo the Enforcer. Enzo was protecting his Tiger Trigonometry School from bullies who like to pick on the smart tigers, when Alan trapped him within this coordinate grid.

Only you can save Enzo. Solve the following questions and Alan Clintock will have to return Enzo the Enforcer to his Tiger Trigonometry School.

1. Graph the following points.

$$A = (-6, 4)$$

$$B = (0, 4)$$

$$C = (6, -2)$$

$$D = (-6, -2)$$

2. Connect all points, going in alphabetical order.

3. What is the distance from point A to point B?

4. What kind of polygon is Enzo the Enforcer trapped within?

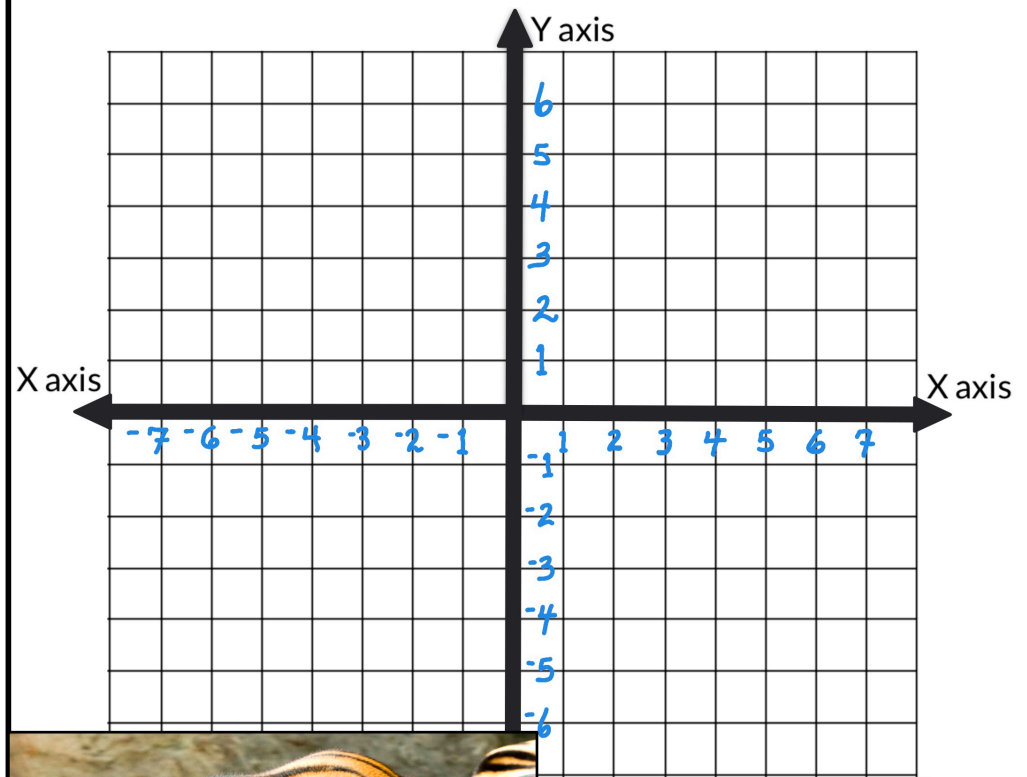


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Khrantsova

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Book 4

Challenge 6

Horas the Hoarder loves collecting animals. He trapped Timid Timmy. Timid Timmy just found a huge walnut, and was about to chow down when Horas the Hoarder snatched him away, and trapped Timmy within this coordinate grid. You are Timid Timmy's only hope. Solve the following questions and Horas the Hoarder will have to return Timid Timmy to his tasty walnut.

- Graph the following points.  
A = ( 5, 5 )  
B = ( 5, -5 )  
C = ( -5, -5 )  
D = ( -5, 5 )
- Connect all points, going in alphabetical order.
- What is the distance from point C to point D?
- What kind of polygon is Timid Timmy trapped within?

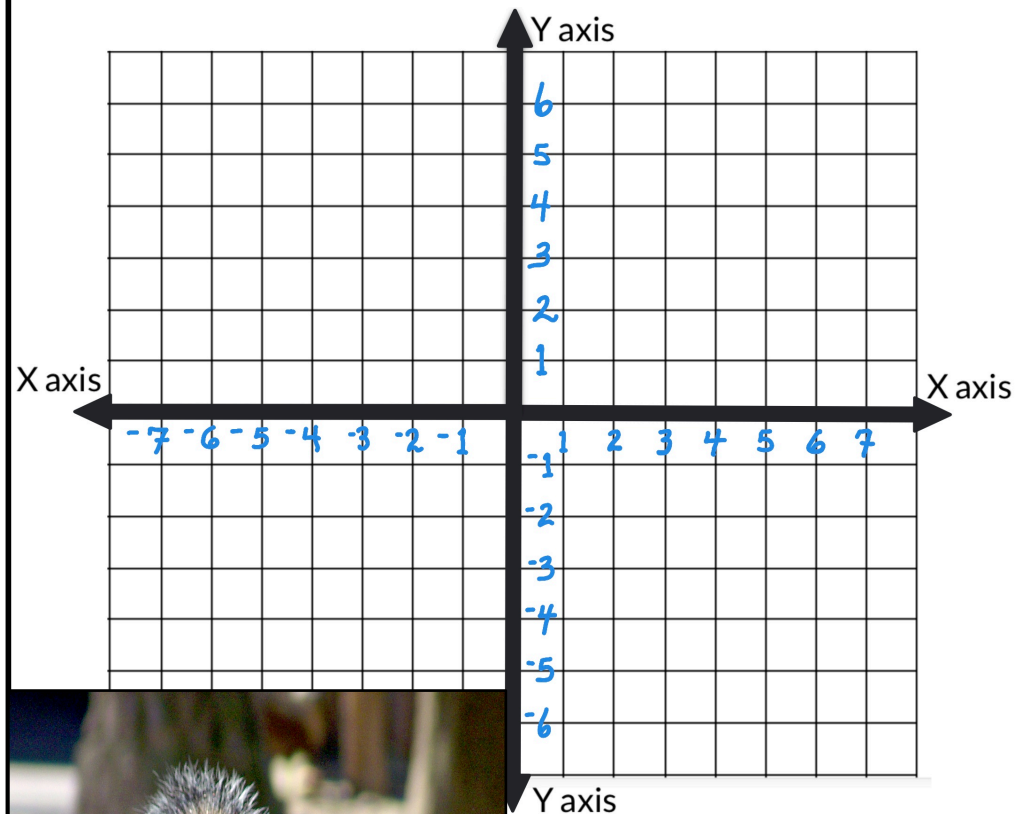


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# Fun Geometry – The Mystery Polygon!

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Challenge 7

Alan Clintock the Animal Collector caught Sandy Starfish as she was delighting an audience at the Monterey Aquarium. She walks like a person, stepping her way through the water, while onlookers smile and point. Now, Sandy is trapped within this coordinate grid. Only you can save Sandy Starfish. Solve the following questions and Alan Clintock will have to return Sandy to her aquarium home.

1. Graph the following points.  
A = ( -2, 6 )  
B = ( 2, 6 )  
C = ( 6, -2 )  
D = ( -2, -2 )
2. Connect all points, going in alphabetical order.
3. What is the distance from point A to point B?
4. What kind of polygon is Sandy Starfish trapped within?

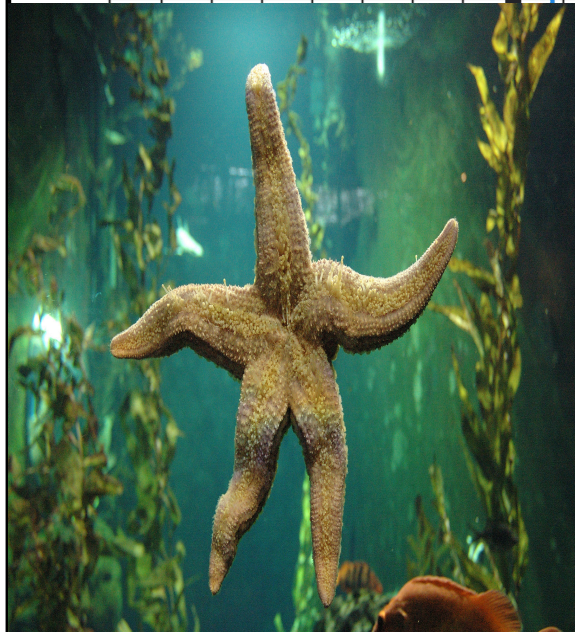
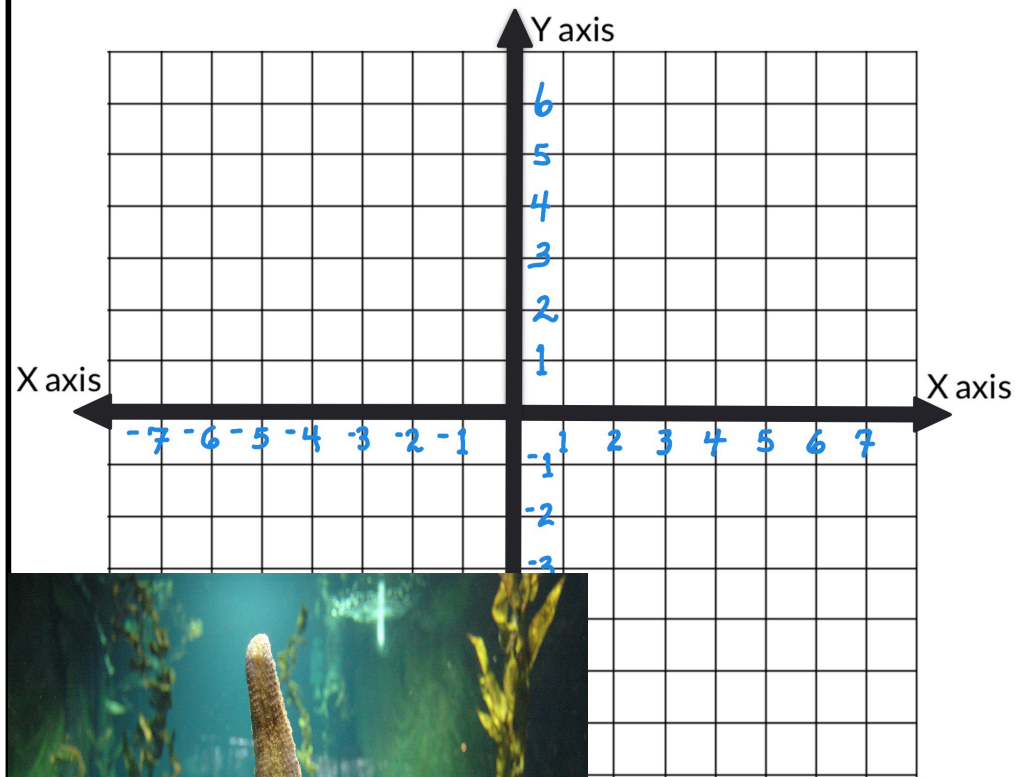


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Chris van ES

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# Fun Geometry – The Mystery Polygon!

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Challenge 8

Malevolent Myrdal is plain old evil. She traps animals for the fun of it. Myrdal trapped Lucy Longneck. Lucy's baby giraffe is under attack from a hungry lion. Lucy was about to kick the lion away and save her baby. Will you help Lucy and her baby? Solve the following questions and Malevolent Myrdal will have to release Lucy from this coordinate grid? Lucy was in mid-kick, so with your help she is sure to save her baby.

1. Graph the following points.  
 $A = (-7, 0)$   
 $B = (-4, 3)$   
 $C = (6, -5)$
2. Connect all points, going in alphabetical order.
3. Without cutting through boxes, what is the distance from point B to point C?
4. What kind of Triangle is Lucy Longneck trapped within?

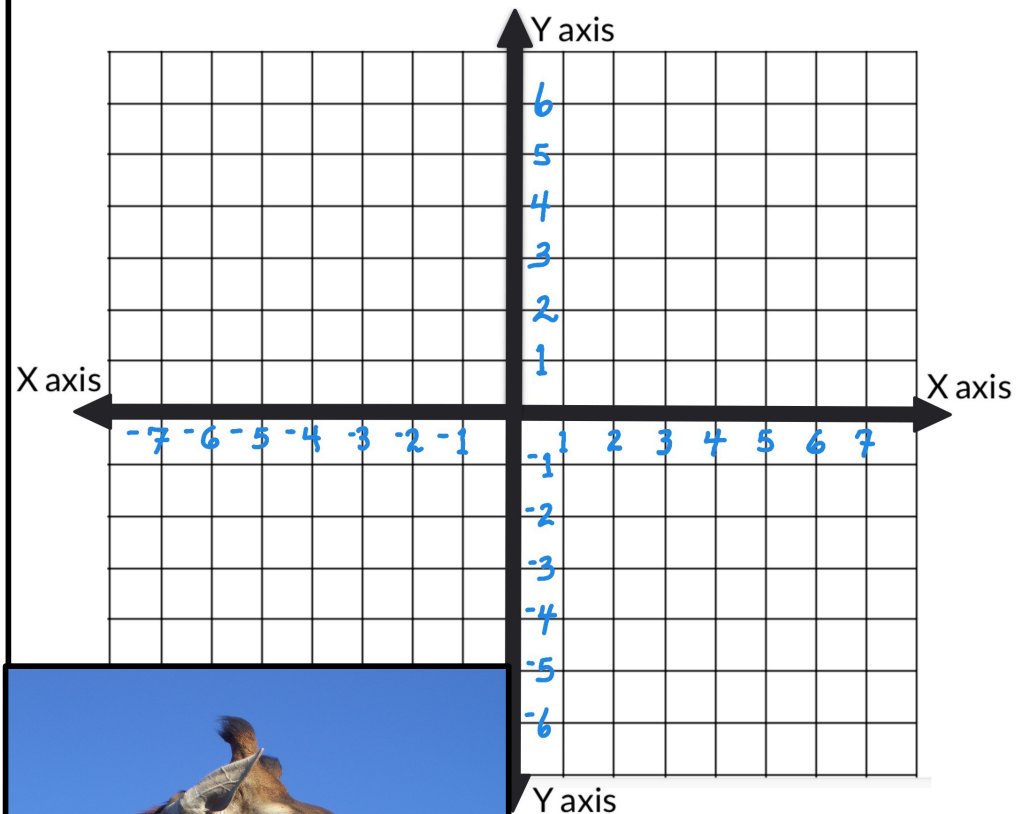


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Challenge 9

Waldron the Wizarding Wizard used his magic to trap Reginal Ram. Reginal was just about to butt heads with another ram and win the hear of Ronda Rammet, the prettiest ewe on the mountain. Now, Reginal is trapped within this coordinate grid. Only you can save Reginal's love life. Solve the following questions and Waldron's magic spell will diminish, releasing Reginal Ram back to his head butting mountain, where he can win Ronda Rammet's heart.

1. Graph the following points.  
A = ( 0, 6 )  
B = ( 0 , -6 )  
C = ( 4, 0 )
2. Connect all points, going in alphabetical order.
3. What is the distance from point A to point B?
4. What kind of Triangle is Reginal Ram trapped within?

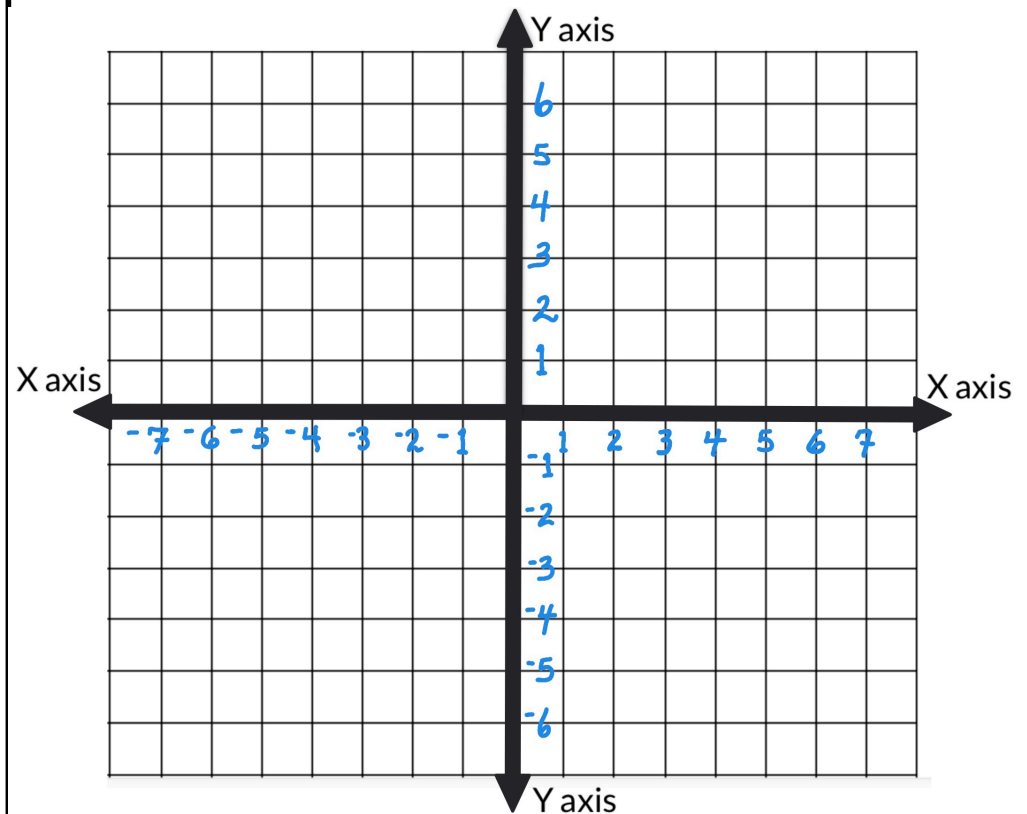


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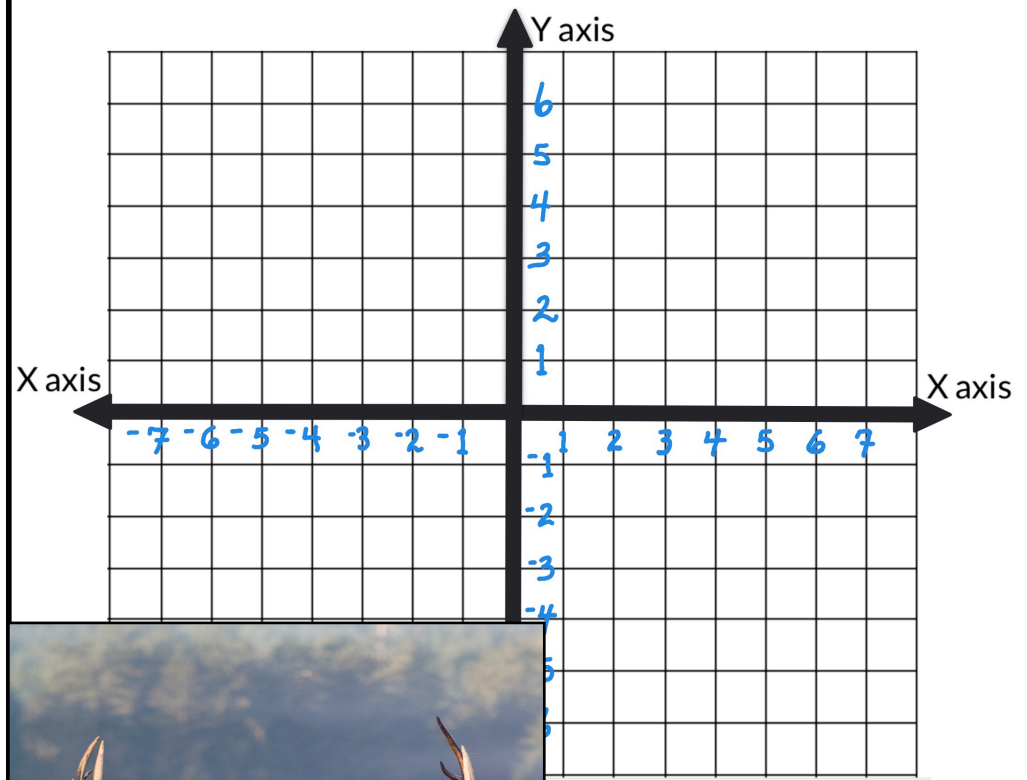
Book 4

Challenge 10

Horas the Hoarder loves collecting Elk more than any other animal. He trapped Roosevelt when he was taking a stroll across his mountain valley. Now, Roosevelt the Elk is trapped and feeling claustrophobic within this coordinate grid.

You are Roosevelt's only hope. Solve the following questions and Horas the Hoarder will have to return Roosevelt the Elk to his mountain valley home.

- Graph the following points.  
A = ( -3, 3 )  
B = ( 5, 3 )  
C = ( 3, -3 )  
D = ( -5, -3 )
- Connect all points, going in alphabetical order.
- What is the distance from point A to point B?
- What kind of polygon is Roosevelt the Elk trapped within?



Y axis

Photo by Kevin Abbott

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