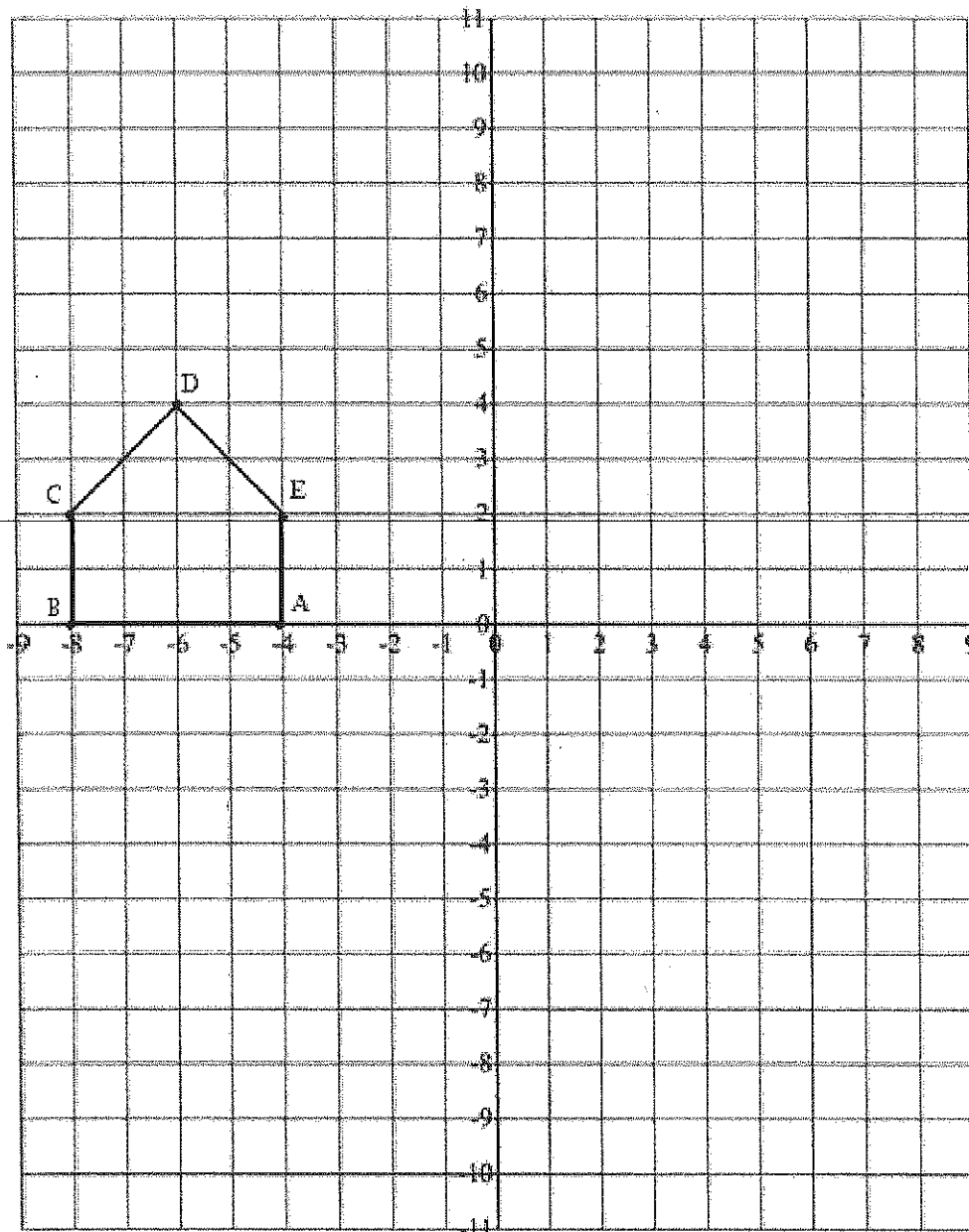


Name: _____ Date: _____

6-1 Leaping Lizards

Instead of a lizard we'll work with a house. The vertices of the house are $(-4, 0)$, $(-8, 0)$, $(-8, 2)$, $(-6, 4)$ and $(-4, 2)$.

1. Start by translating the house $(x+3, y+5)$, at what point is the top of the roof (__, __).
2. Then rotate the original house around the origin $(0,0)$ 90 degrees clockwise.
3. Draw the line $y=-x$
4. Then reflect the house over the line $y=-x$
5. Reflect the house from #4 over the y -axis
6. Reflect the original house over the x -axis
7. Reflect the house from #6 over the y -axis

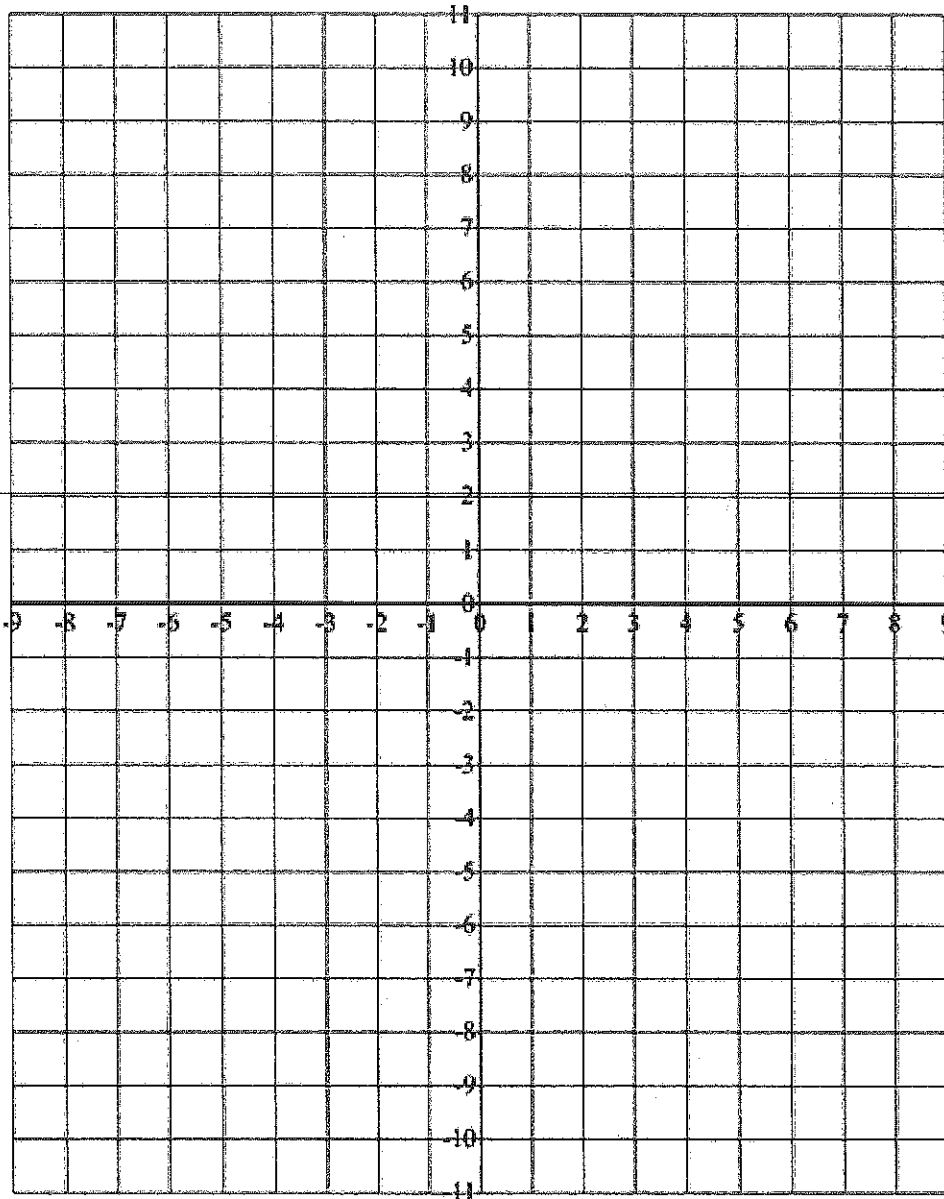
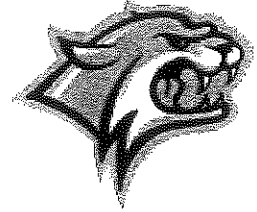


Name: _____ Date: _____

6-1 Leaping Lizards

Instead of a lizard we'll work with a W. The vertices of the W are A (2,5), B (4,3), C (4,5), D (6,5) and E (4,7).

1. Start by translating the W $(x+3, y-11)$, at what point is the middle of the W (__,__).
2. Then rotate the original W around the origin (0,0) 90 degrees counter-clockwise.
3. Draw the line $y=x$
4. Then reflect the W over the line $y=x$
5. Reflect the house from #4 over the y -axis
6. Reflect the original W over the x -axis
7. Reflect the W from #6 over the y -axis



READY, SET, GO!

Name _____

Period _____

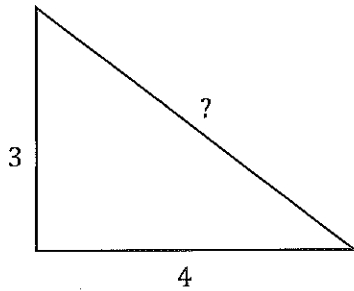
Date _____

READY

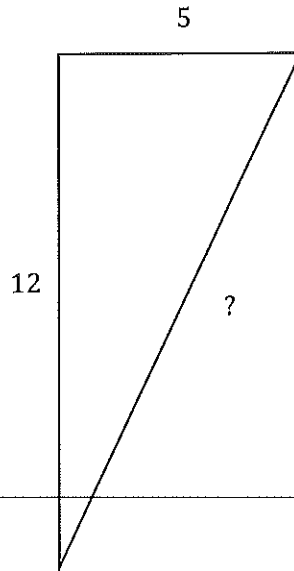
Topic: Pythagorean Theorem

For each of the following right triangles determine the measure of the missing side. Leave the measures in exact form if irrational.

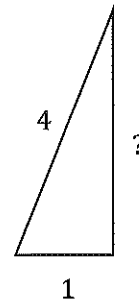
1.



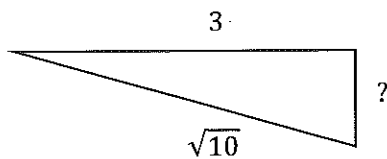
2.



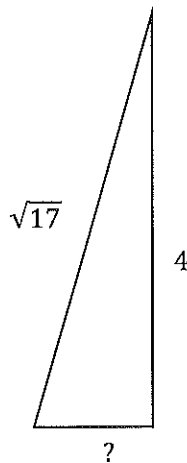
3.



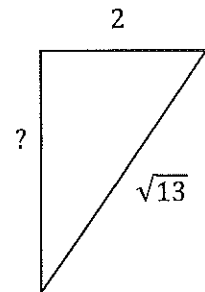
4.



5.



6.



SET

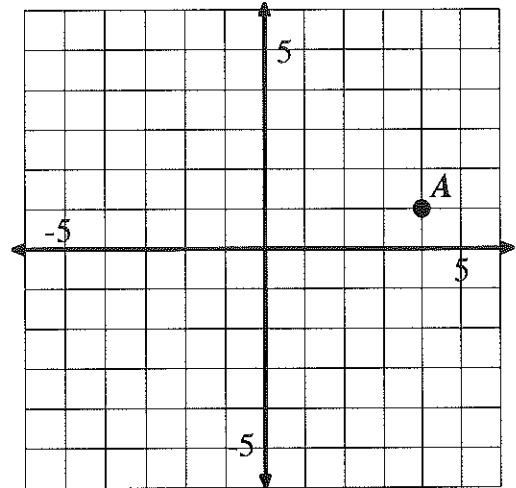
Topic: Transformations.

Transform points as indicated in each exercise below.

7a. Rotate point A around the origin 90° clockwise, label as A'

b. Reflect point A over x-axis, label as A''

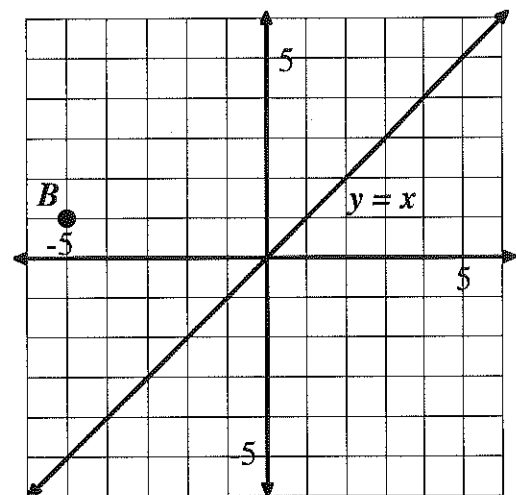
c. Apply the rule $(x - 2, y - 5)$, to point A and label A'''



8a. Reflect point B over the line $y = x$, label as B'

b. Rotate point B 180° about the origin, label as B''

c. Translate point B the point up 3 and right 7 units,
 label as B'''

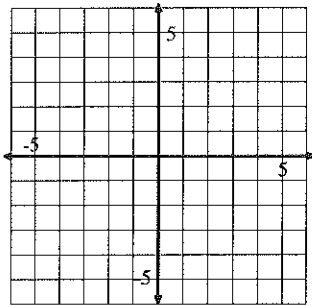


GO

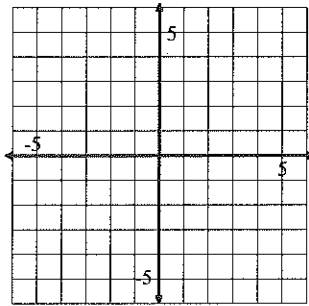
Topic: Graphing linear equations.

Graph each function on the coordinate grid provided. Extend the line as far as the grid will allow.

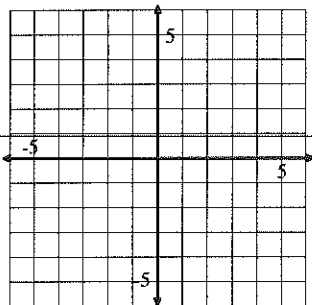
9. $f(x) = 2x - 3$



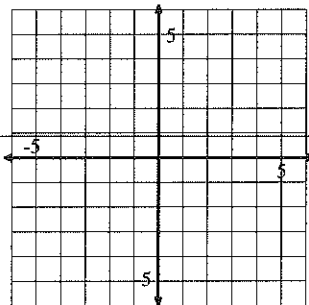
10. $g(x) = -2x - 3$


 11. What similarities and differences are there between the functions $f(x)$ and $g(x)$?

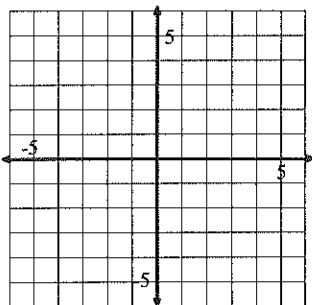
12. $h(x) = \frac{2}{3}x + 1$



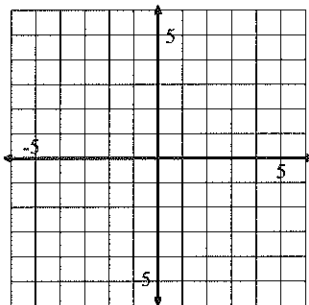
13. $k(x) = -\frac{3}{2}x + 1$


 14. What similarities and differences are there between the equations $h(x)$ and $k(x)$?

15. $a(x) = x + 1$



16. $b(x) = x - 3$


 17. What similarities and differences are there between the equations $a(x)$ and $b(x)$?