

Tri 3 Review

1. For each of the following identify if it is linear or non-linear and explain your reasoning.

a. $3y = 4x - 6$

b. $y = 2.5x + 4$

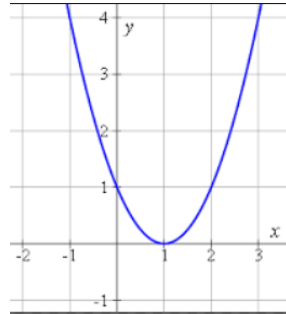
c.

x	Y
0	-7
1	-9
2	-11

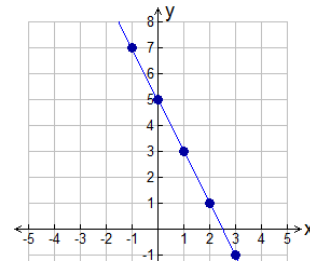
d.

X	Y
-1	1
0	3
1	6

e.

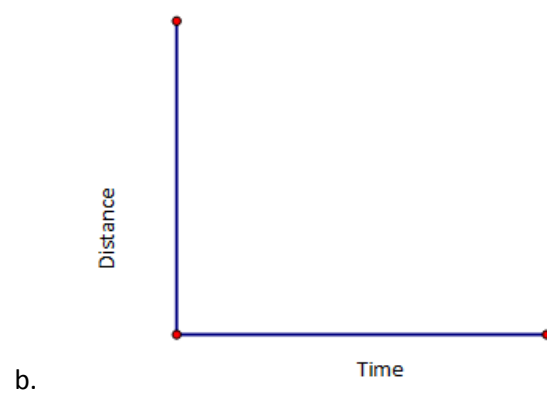
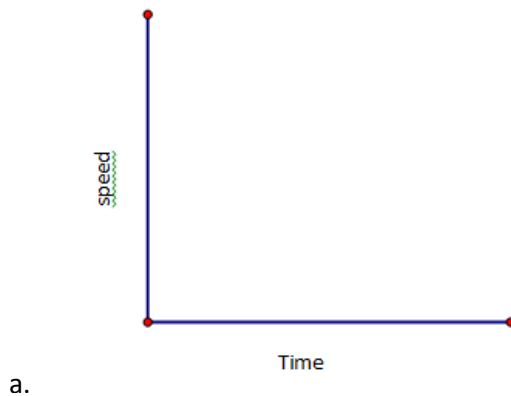


f.



2. Create a graph to match the story below. Make sure you pay attention to the changes in the story.

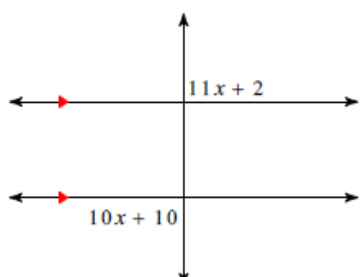
David is driving home from work at 55 mph. He stays at that speed for 30 minutes. He stops by a grocery store near home to pick up something for dinner. He then drives the last 5 minutes home at 30 mph.



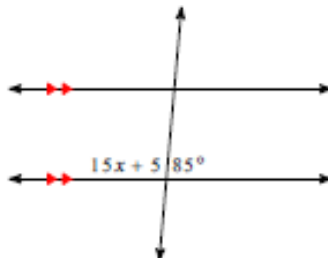
3. The diameter of Earth is about 7900 miles. Find the volume of the Earth to the nearest hundredth cubic miles. Most of the Earth's atmosphere is less than 50 miles above the surface. Find the volume of the atmosphere to the nearest hundred cubic meters.

4. Identify the angle relationships and then solve for x .

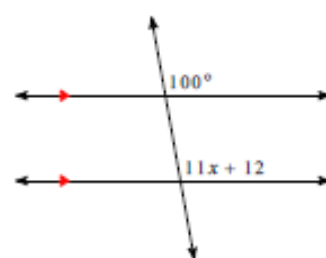
a.



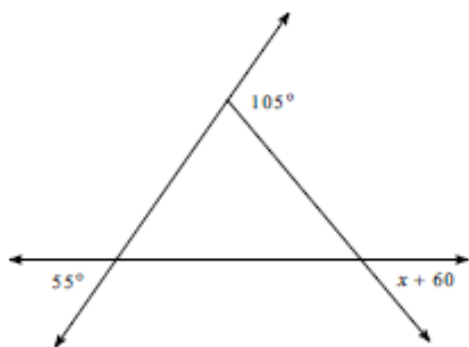
b.



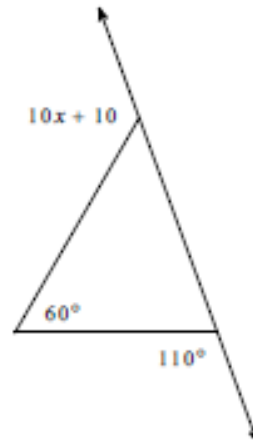
c.



d.



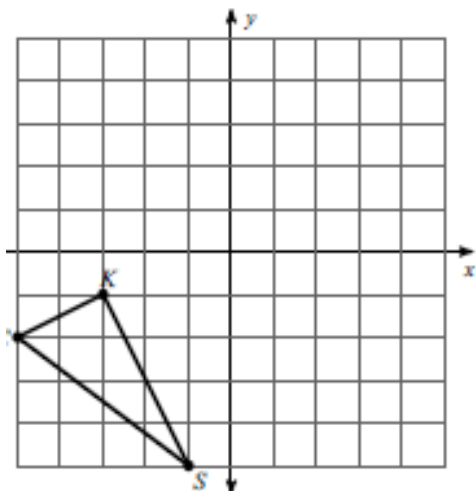
e.



5. Graph the image of the figure using the transformation given.

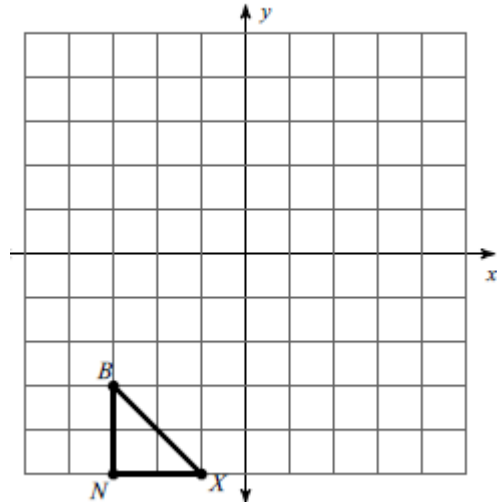
a.

reflection across $x = -3$



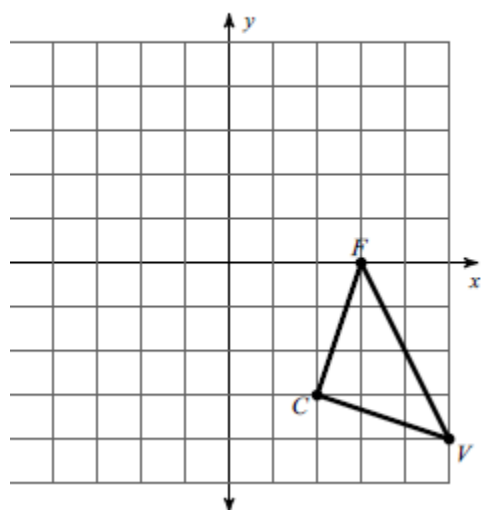
b.

reflection across $y = -4$



c.

rotation 90° counterclockwise about the origin



d.

rotation 180° about the origin

