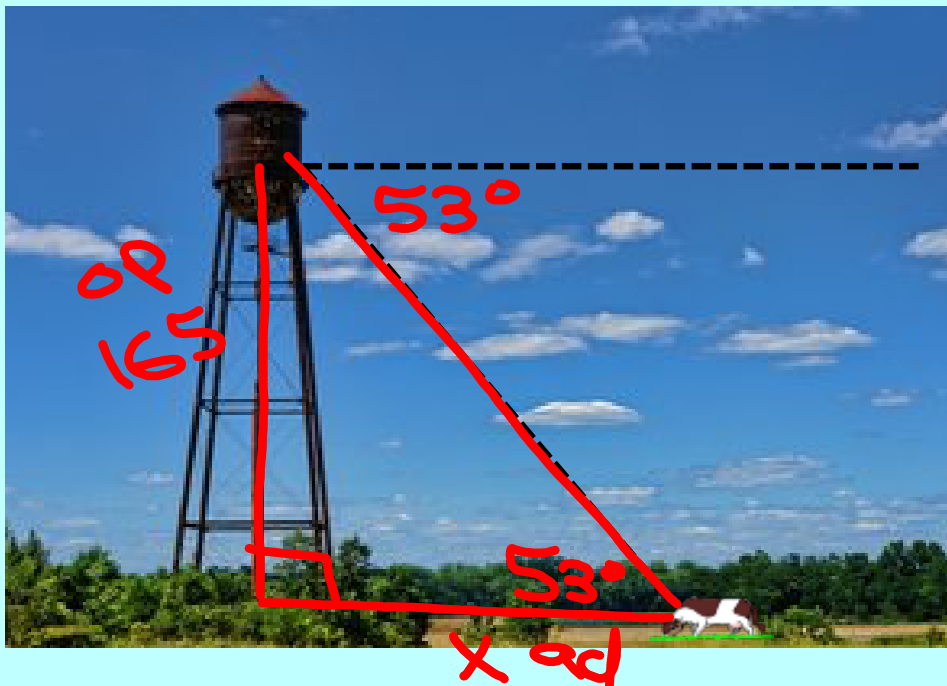


2/24/20 - Warm Up Problem

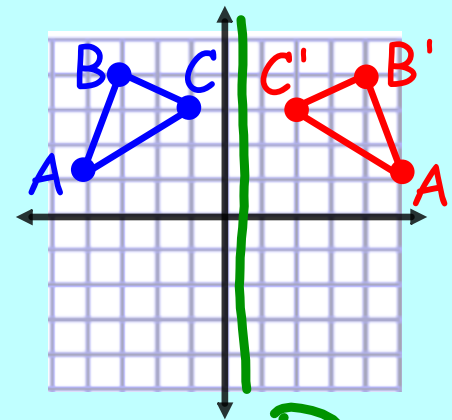
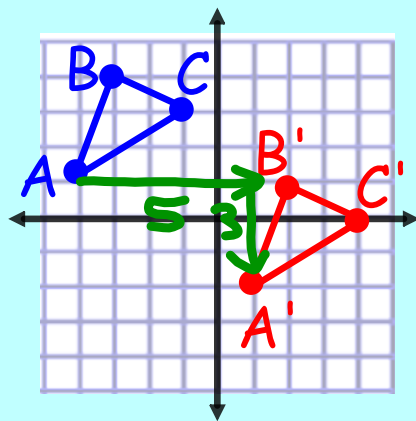
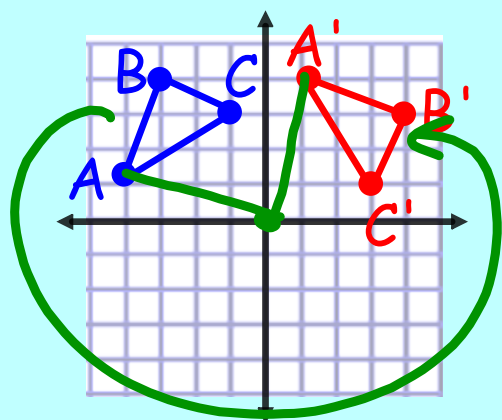


You are admiring the view from deck of this water tower which is 165 feet tall. You spot a cow wandering by at a 53° angle of depression. How far from the base of the water tower is the cow?

$$\begin{aligned} \cancel{\tan(53)} &= \frac{165}{x} \\ 165 &= x \cdot \tan(53) \\ x &= 124.3 \text{ ft} \end{aligned}$$

Concept 21 - Transformation Review

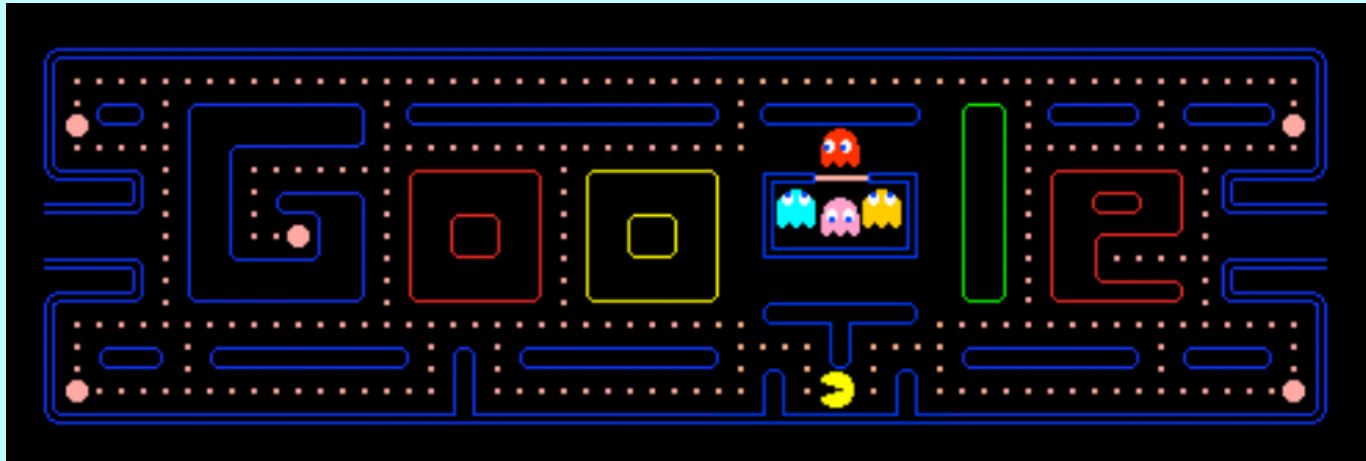
Write a function notation rule for each transformation.



$$r_{(270^\circ, 0)}(\triangle ABC) \quad T_{\langle 5, -3 \rangle}(\triangle ABC) \quad R_{x=5}(\triangle ABC)$$

Goal of PacMan

- eat as many dots as you can
- don't get killed by ghosts
- small dots = 10 points
- large dots = 50 points

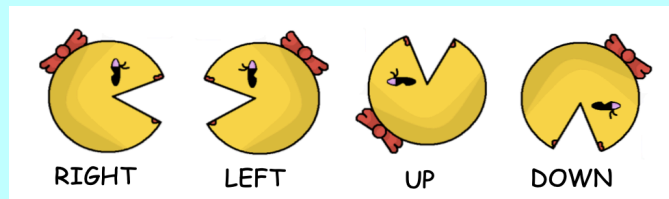


Rules of Pac Man's Motion

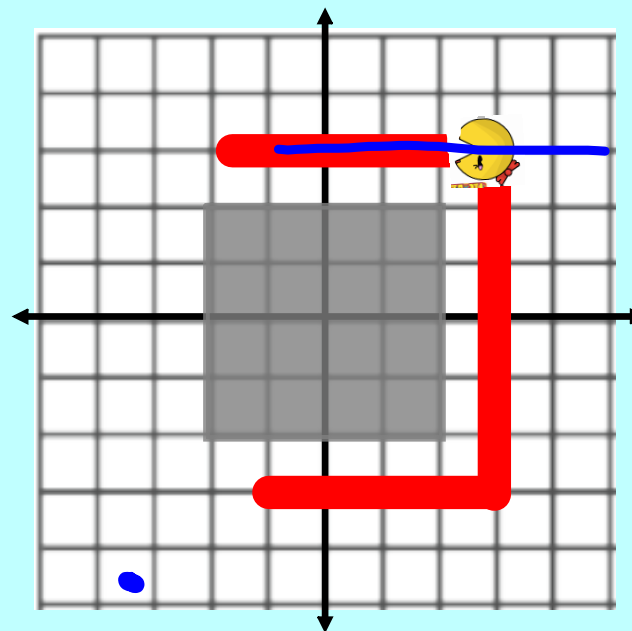
Ms. Pac Man is always in these positions when she is moving each direction.



Moving Pac Man with Transformations



1. $T\langle 5, 0 \rangle$
2. $r(90^\circ)$
3. $T\langle 0, 6 \rangle$
4. $r(90^\circ)$
5. $R_{y=3}$



Assignment:

Pac Man Transformation Review

- due Friday 2/28

You have 20 transformations to get the highest score you can.
Small dots are 10 points. Large dots are 50 points.

Each translation, rotation, or reflection counts as a separate transformation.

You cannot reflect Pac Man to the opposite side of the course.
Pac Man cannot teleport!

