

Warm-Up

Solve and Graph the following:

A. $3(x + 2) \geq 11 + 5x$

$$3x + 6 \geq 11 + 5x$$

$$3x - 5x + 6 \geq 11 + \boxed{5x - 5x}$$

$$-2x + 6 \geq 11$$

$$-2x + 6 - 6 \geq 11 - 6$$

$$\frac{-2x}{-2} \geq \frac{5}{-2}$$

$$x \leq \frac{5}{2}$$



B. ~~$\frac{m}{4} + 5 = \frac{1}{2} - m$~~

$$\frac{4m}{4} + 20 = \frac{4}{2} - 4m$$

$$m + 20 = 2 - 4m$$

$$m + 4m + 20 = \boxed{2 - 4m + 4m}$$

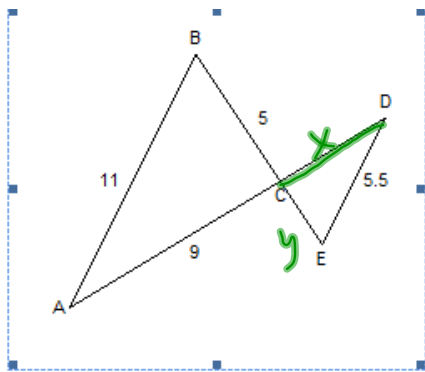
$$5m + 20 = 2$$

$$5m + 20 - 20 = 2 - 20$$

$$5m = \frac{-18}{5}$$

$$\frac{5m}{5} = \frac{-18}{5}$$

$$m = -\frac{18}{5}$$



$$\frac{CD}{CA} = \frac{CE}{CB} = \frac{ED}{BA}$$

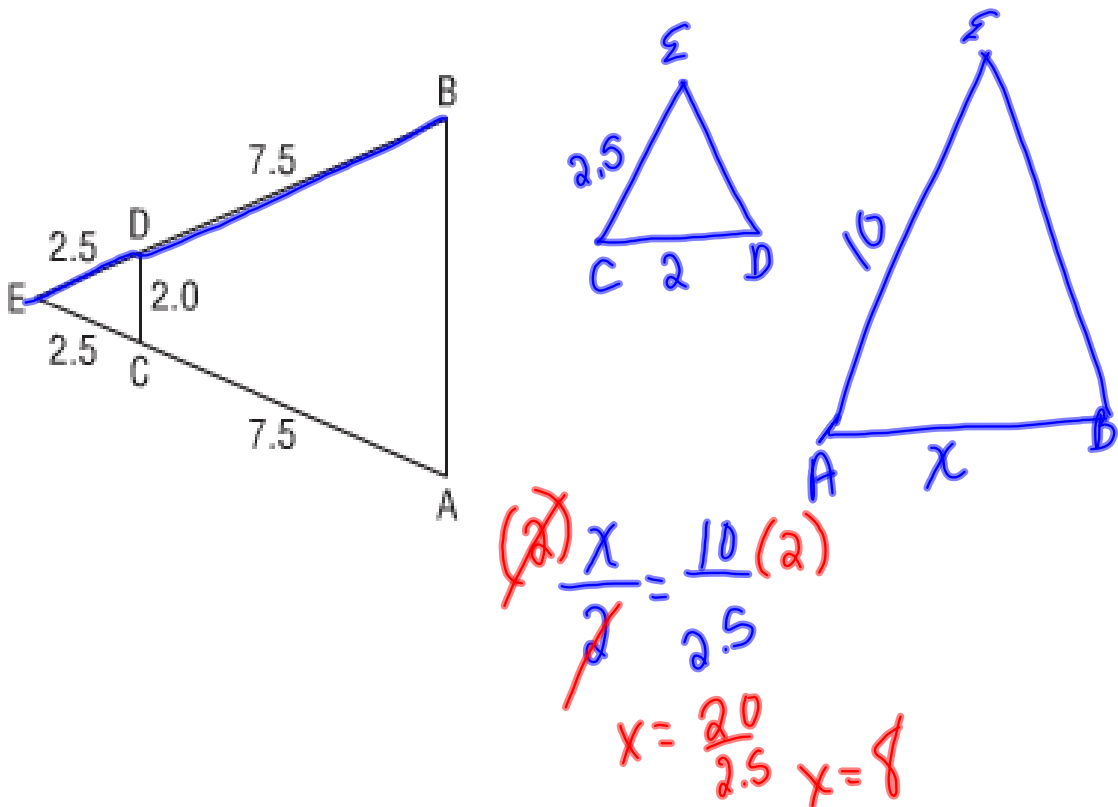
$$\frac{x}{9} = \frac{y}{5} = \frac{5.5}{11}$$

$$(9) \frac{x}{9} = \frac{5.5}{11} (9)$$

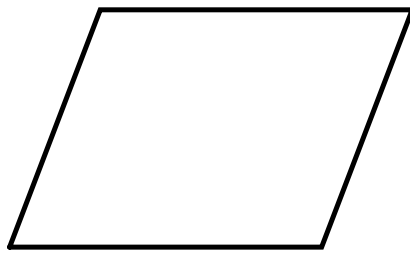
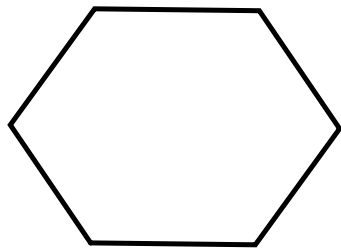
$$x = 4.5$$

Homework Questions???

Solve for BA



Lines of Symmetry

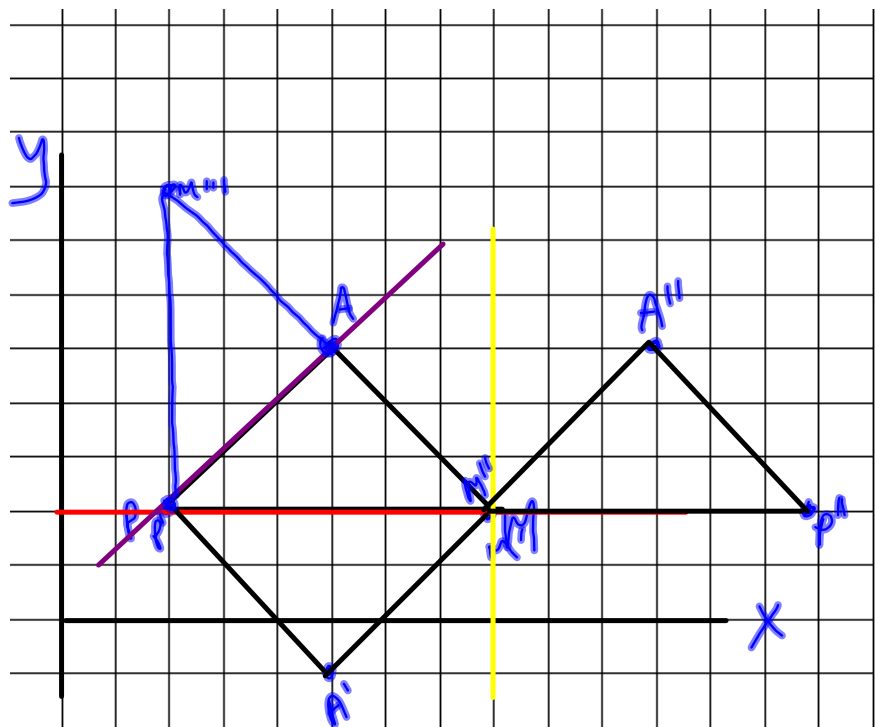


Plot the points:

P (2, 2)

A (5, 5)

M (8, 2)



Reflect $\triangle PAM$ in the horizontal line passing through 2 on the y-axis.

b) Reflect $\triangle PAM$ in the vertical line passing through 8 on the x-axis.

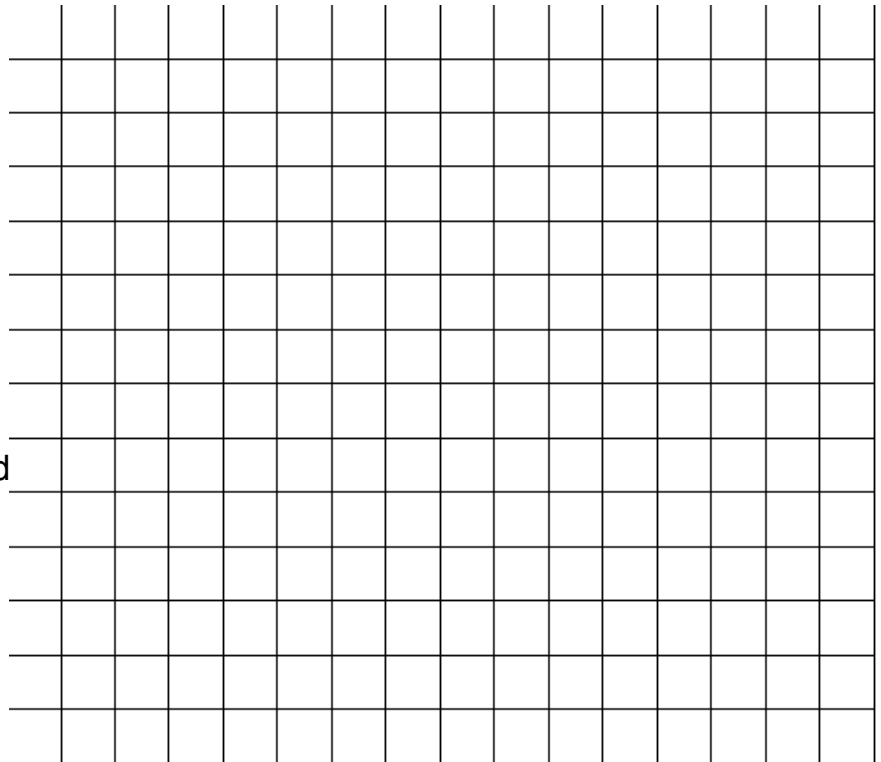
c) Reflect $\triangle PAM$ in the oblique line passing through the points (2, 2) and (5, 5).

Plot

S [1,1]
R [8, 2]
Q [8, 4]
P [4,4]

A. Draw a reflection
through 4 on y-axis

B. oblique line (1, 1) and
(4, 4)

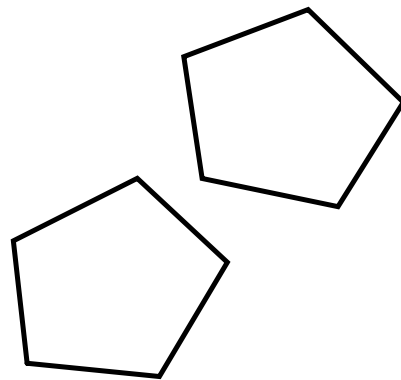
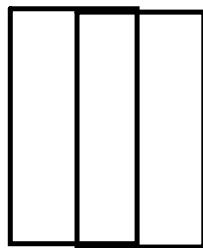
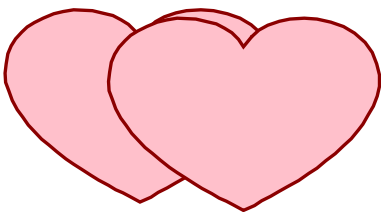


Rotational Symmetry

- The number of times a shape coincides with itself, during rotation of 360, **ORDER OF ROTATION!**

- **ANGLE OF ROTATION**-- 360

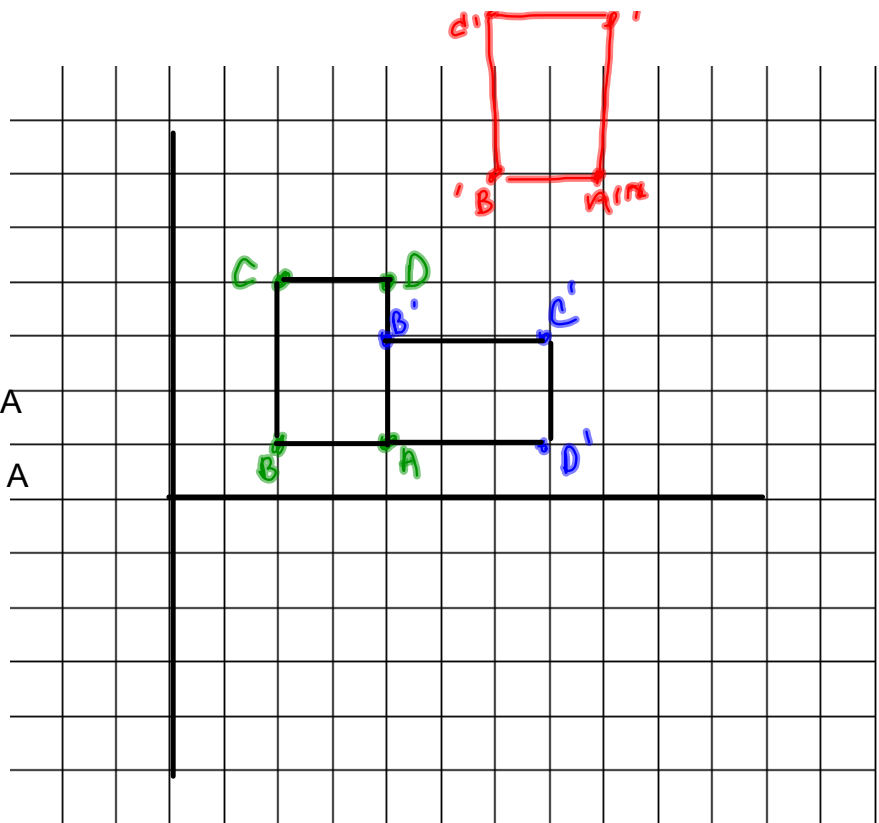
order of rotation



Plot

- A. [4, 1]
- B. [2, 1]
- C. [2, 4]
- D. [4, 4]

- A. Rotate 90 degrees at point A
- B. rotate 180 degrees at point A
- C. Translation R4, U5



14-17
23-29

Attachments

unit 7.doc