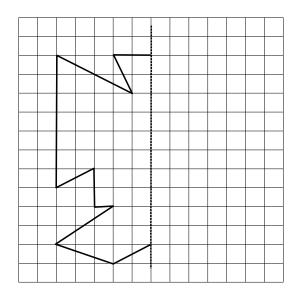
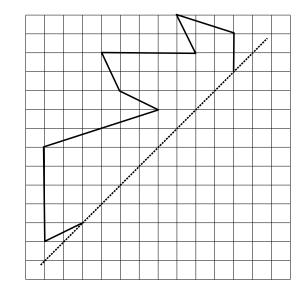
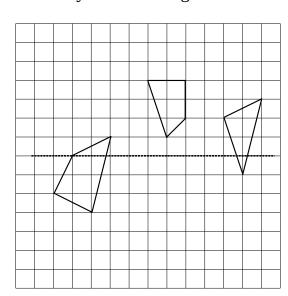
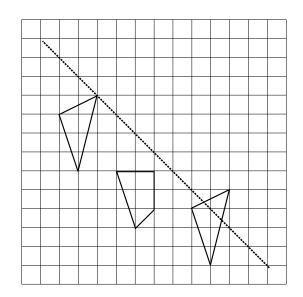
1. Reconstruct the shapes that have axis of symmetry:





2. Plot symmetric images:





3. Remove parenthesis:

$$3 \cdot (y - a + 2) =$$

$$w \cdot (x - 2 + 3w) =$$

$$2w \cdot (w + 3 + y) =$$

$$a \cdot (2x + 4 + 3a) =$$

$$3x \cdot (x + 3 - 2y) =$$

$$\mathbf{x} \cdot (2\mathbf{x} + \mathbf{b} - 2) = \underline{\hspace{1cm}}$$

$$x\cdot(x-2y+w)=\underline{\hspace{1cm}}$$

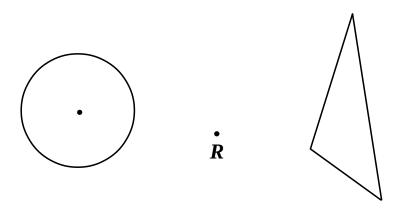
$$2y\cdot(x-3+3y)=\underline{\hspace{1cm}}$$

$$x \cdot (2x - 2 - 3a) =$$

$$2y\cdot(2x-9+4y)=\underline{\hspace{1cm}}$$

4*. A plane transforms in a way that points R remains immobile, while every other point A_1 moves into such a position A_2 that $\overline{RA_2} = 2\overline{RA_1}$. Plot the images of the triangle and a circle on the drawing produced by this transformation.

(Hint: you need to identify some **"important points"** and move them twice further from point R; think what will happen to the circle size)



Complete in your notebook

5. *Show solutions of the equations:*

a).
$$|3x + 2| = 7$$
 b). $3 \cdot (2x - 1) + 2 \cdot (7 - x) = 4 \cdot (2x + 1) - 1$ **c).** $\frac{1}{1 + \frac{1}{x}} = \frac{1}{3}$

(Answers: a) $\{-3, 2\}$; b) x = 2; c) $x = \frac{1}{2}$)

- **6.** Show the solutions of the word problems:
- *a)*. An automated combiner can plow $1\frac{1}{4}$ acre in one hour. How long will it take to plow 75 acres? (60 hours)
- *b).* A super-combiner can plow 3¾ acre in one hour. How long will it take the super combiner to plow the 75 acre field? (20 hours)
- *c).* How long will it take both machines to finish the 75 acre field? (15 hours)
- **7.** You have a large barrel of lemonade and two measures: 3 liters and 5 liters. They do not have any other marks. How could you use these measures to measure exactly ...
- *a*). ... 2 liters of lemonade ...
- *b*). 4 liters of lemonade ...
- *c*). 1 liter of lemonade into another large bucket of unknown size?