

Chapter 11 --Integers

11.7 Reflections and Rotations
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NOTES (11.7) Reflections and Rotations

In a **reflection**, the original figure is flipped over a line to create a congruent mirror image.

The line it is flipped over is called the **line of reflection**.

When a figure is **turned clockwise or counterclockwise** about a **fixed point** (usually the origin) it is called a **rotation**

The **fixed point** is the **center of rotation**

The **angle** is called the **angle of rotation**

Translations (slides) **reflections** (flips/mirror) and **rotations** are called **transformations**.

Guided Practice pp 610-612

Do #4 like this (2 pts)

3) no; the image has been rotated

5) yes; x-axis

#6 = 5 pts

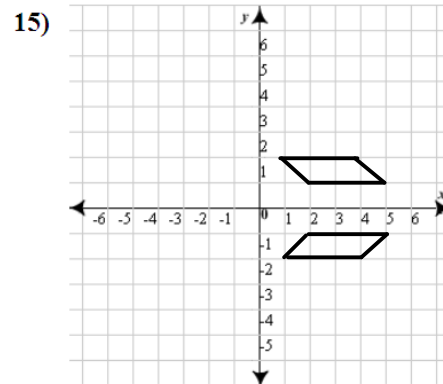
Do # 8-12 like this

9) translation

11) translation

13) rotation

Do # 14 & 16 like this on the same graph



Do #18 like this

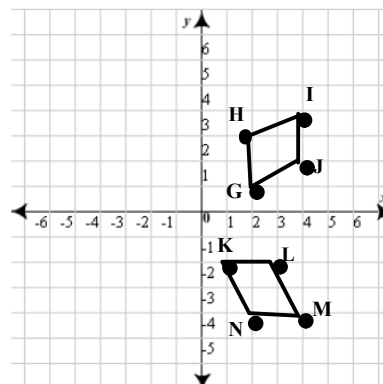
19) translation

20) other

21) reflection

Do # 22 like this (7 pts)

23)



rotation

Do # 28 & 30 like this

29) reflection & rotation

31) reflection, rotation

#32 = 2 pts

34 = 4 pts

NOTES pp 614-615 Tessellations

A **tessellation** is a repeating pattern of figures

A **regular tessellation** is made from only one type of regular polygon

Note: there can be no gaps or overlaps

