

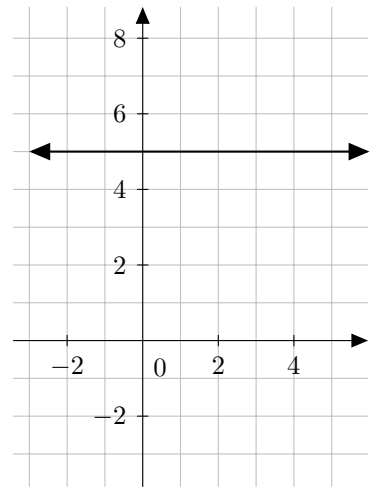
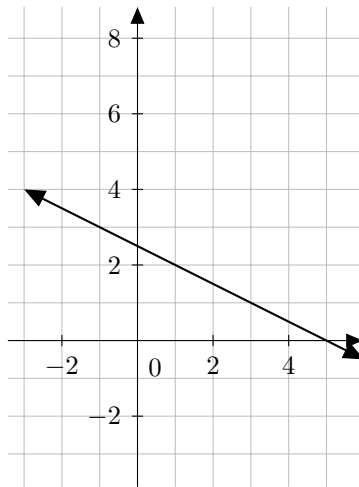
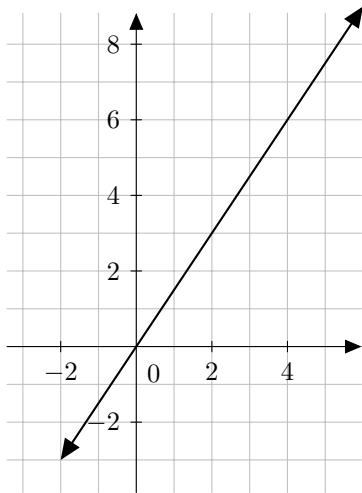
Name: _____

Geometry Lesson 2.2B Reflections (*G-CO.A.4 50%*)

Do Now: Write 2 things you know about slope

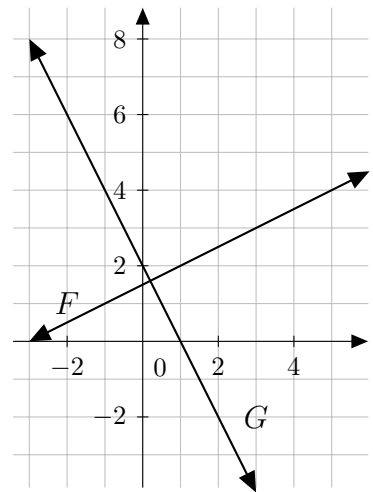
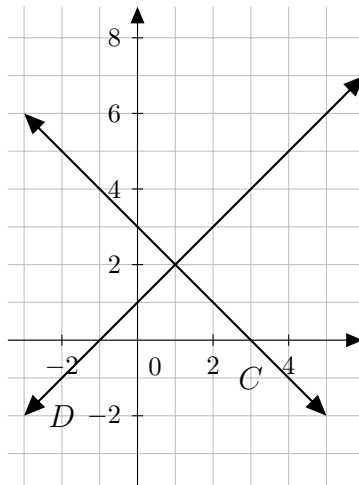
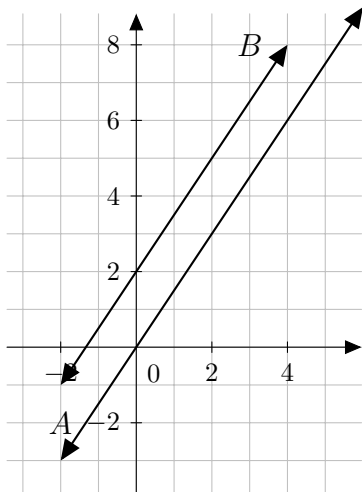
Mini-Lesson:

1. Slope is the ratio of _____ to _____
2. Slope is often written as _____
3. Lines with _____ slope increase from left to right
4. Lines with _____ slope decrease from left to right
5. Find the slope of each of the following lines



Guided Practice

6. For each drawing, find the slope of both of the lines



7. **Debrief:** What do you notice about the slopes of parallel lines?

8. What do you notice about the slopes of perpendicular lines?

9. _____ are numbers that multiply to equal 1.

10. _____ are numbers that multiply to equal -1.

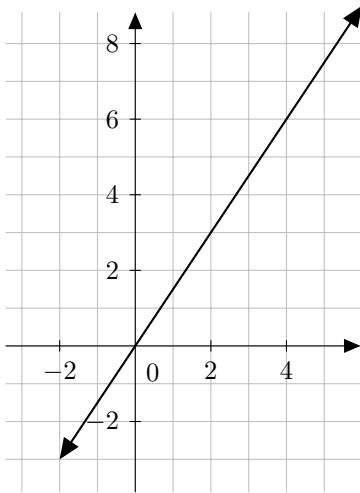
11. The slopes of perpendicular lines are _____.

Classwork:

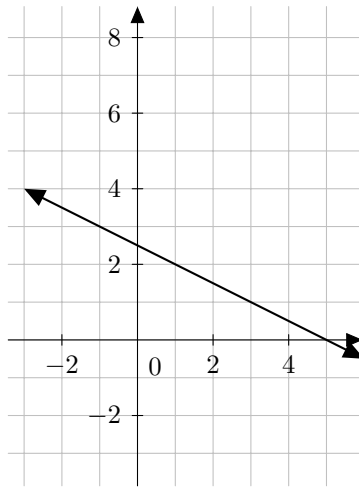
12. For each given slope, find the slope of a perpendicular line:

$\frac{2}{3}$ _____ $-\frac{1}{2}$ _____ $\frac{5}{4}$ _____ $-\frac{12}{6}$ _____

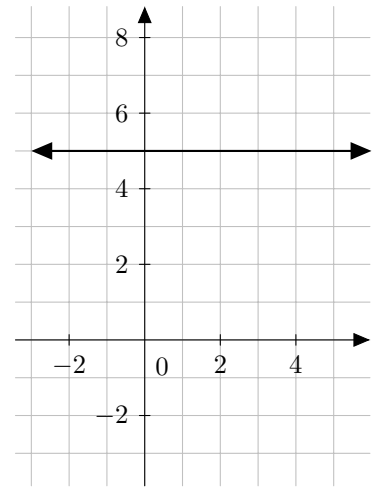
13. For each image, find and write the slope of the perpendicular line. Then draw a line with that slope.



slope: _____

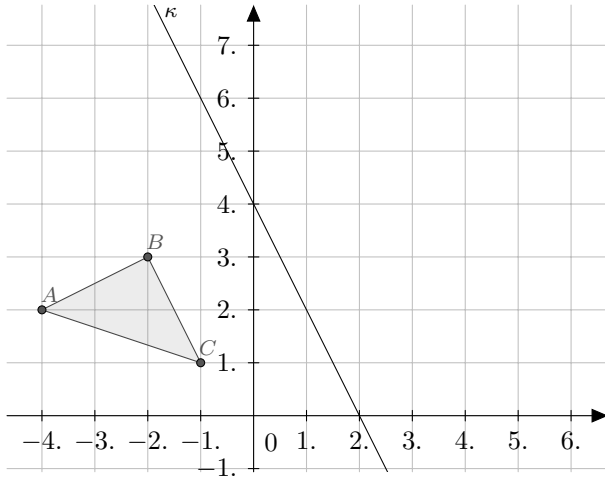


slope: _____

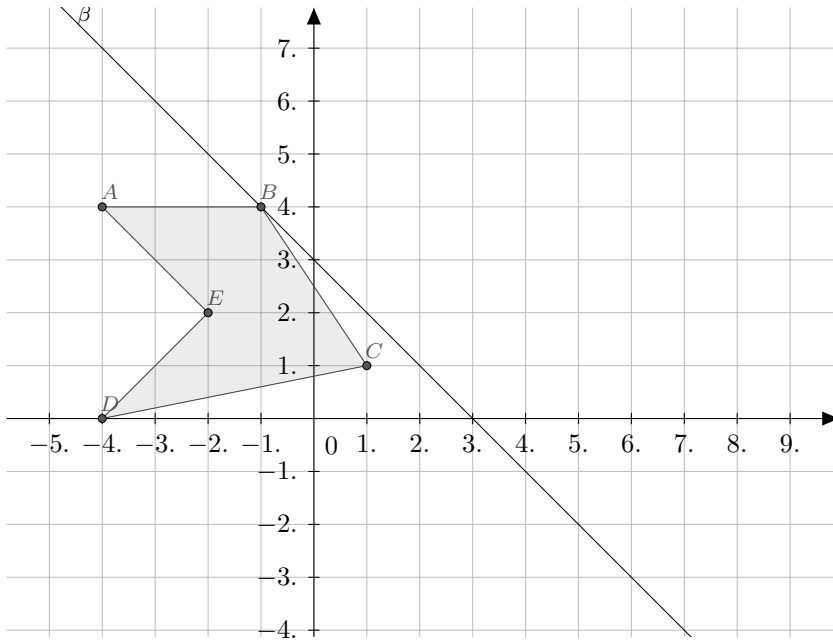


slope: _____

14. For each point, draw a line that passes through the point that is perpendicular to κ . Then draw a reflection of $\triangle ABC$ over line κ .



15. For each point, draw a line that passes through the point that is perpendicular to β . Then draw a reflection of figure $ABCDE$ over line β .



Exit Ticket: Describe the difference between parallel and perpendicular lines based on their slopes only
