

Welcome back!!

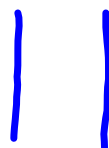


**NEW YEAR
ME!**

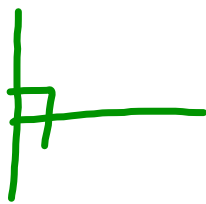
Warm-up


LET'S THINK!

1) What do you think it means for 2 lines to be parallel?



2) What do you think it means for 2 lines to be perpendicular?



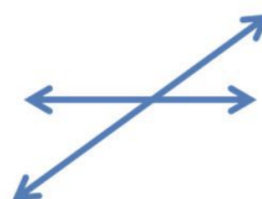
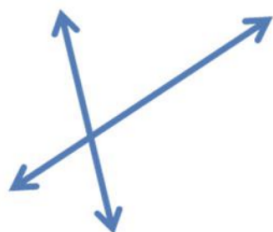
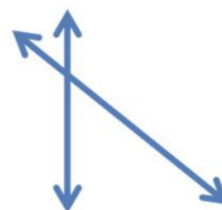
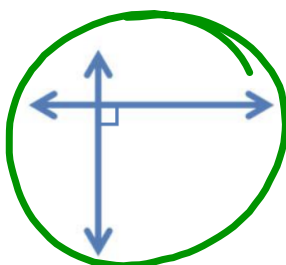
- **Parallel Line Segments:** Line segments that never meet, no matter how far they are extended. They are always the same distance apart. 

- **Perpendicular Line Segments:** Line segments that intersect at a right angle (90 degrees). 

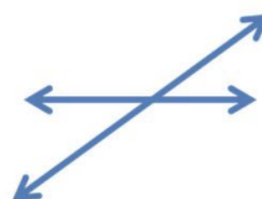
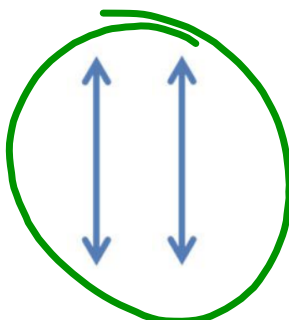
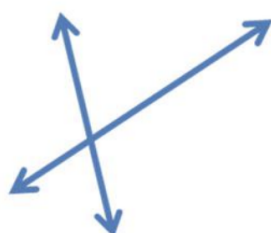
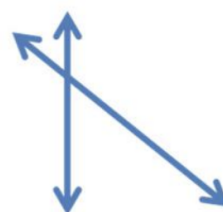
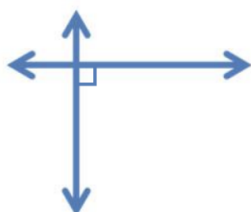
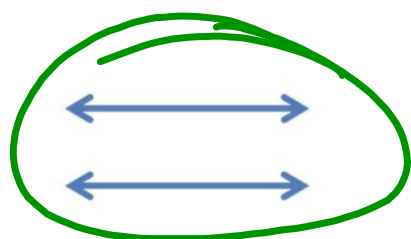
- **Intersecting Line Segments:** When any two lines meet at one common point. 

← NOTE: they do not intersect at 90 degrees.

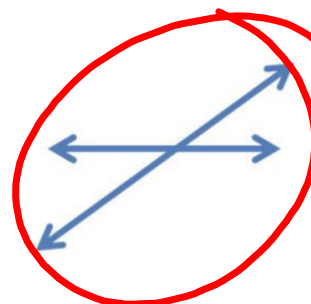
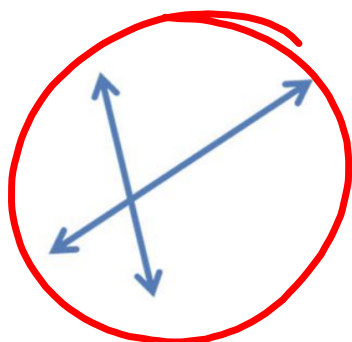
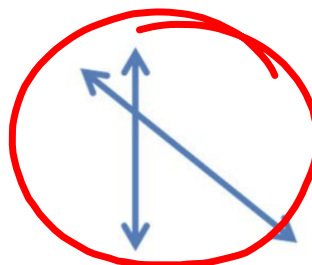
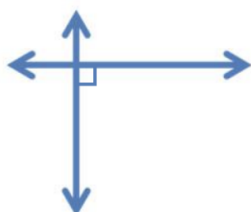
Identify the perpendicular lines (yes you have to draw them):



Identify the parallel lines (already drawn from before):



Identify the intersecting lines (already drawn from before):



How to draw parallel lines:

1. Start with a Reference Line

- > Use a ruler to draw a straight line segment on the paper. This will be your first (reference) line.

2. Mark Two Points Above or Below the Line

- > Choose a distance (e.g., 2 cm). Use the ruler to mark two points above or below the line at this exact distance. Place the marks near the endpoints of the original line.

3. Connect the Points

- > Align your ruler with the two points you marked.
- > Draw a straight line through these points. This line is parallel to the first one.

4. Verify the Lines are Parallel

- > Use the ruler to measure the distance between the two lines at several points. The distance should remain constant

How to draw perpendicular lines:

1. Start with a Reference Line

- > Use a ruler to draw a straight line segment on the paper. This will be your first (reference) line.

2. Mark a Point on the Line

- > Choose any point on the reference line where you want the perpendicular line to intersect. Mark it clearly.

3. Align the Ruler Perpendicularly

- > Place the ruler so it forms a right angle (90°) with the reference line at the marked point. To ensure accuracy:
 - > Use graph paper, aligning the ruler with the grid lines.
 - > Alternatively, use a protractor to confirm the 90° angle.

4. Draw the Perpendicular Line

- > Using the ruler, draw a straight line through the marked point, extending it above and below the reference line.

5. Verify the Perpendicular Angle

- > If using graph paper, check that the lines align with the grid at 90° . If using a protractor, measure to confirm the angle.

Questions???????

Homework



Attachments

Identify Line Segment Work 1.pdf