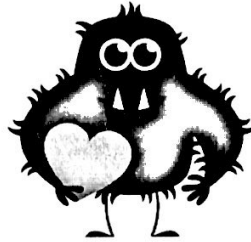


# Weekly

# MATH

## H O M E W O R K

February 9 - 13



DUE TUESDAY: "Points, Lines, and Line Segments"

DUE THURSDAY: "Points, Line Segments, Lines, and Rays"

AND "Rays and Angles"

DUE FRIDAY: "Parallel Lines and Perpendicular Lines"

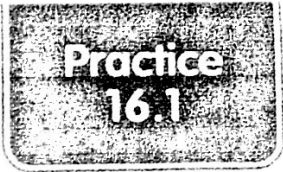
My timed test on FRIDAY is on the \_\_\_\_\_ facts!

Class website: <http://mrsbucksmathclass.weebly.com>

**N a m e** \_\_\_\_\_

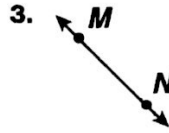
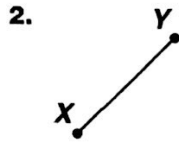
*Parent Signature* \_\_\_\_\_

# \* DUE Tuesday! \*



## Points, Lines, and Line Segments

Use words and symbols to name each figure.



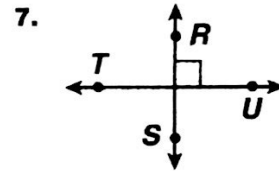
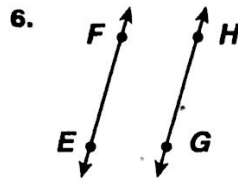
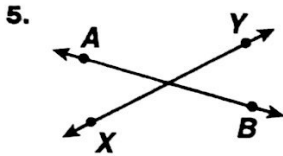
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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write *parallel*, *intersecting*, or *perpendicular* to best describe the relationship between each pair of lines.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Draw** an example of each.

8. horizontal line  $XY$

9. parallel lines  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{CD}$

10. line segment  $MN$

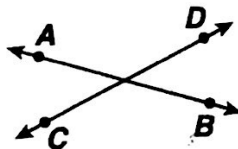
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### Test Prep

11. Which best describes the lines  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{CD}$ ?



- A parallel
- B intersecting
- C point
- D perpendicular

12. Can two lines intersect and be perpendicular? Draw a picture to explain.

\_\_\_\_\_

**\* Due Thursday! \***

Name: \_\_\_\_\_

## Points, Line Segments, Lines, and Rays

**Point**



A **point** is pictured by a dot. It is named with a capital letter. This is point **A**.

**Line Segment**



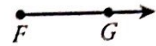
A **line segment** is a straight path between 2 points. This is line segment **BC** or **CB**. It is written  $\overline{BC}$  or  $\overline{CB}$ .

**Line**



A **line** is a straight path that goes on forever in **both** directions. This is line **DE** or **ED**. It is written  $\overleftrightarrow{DE}$  or  $\overleftrightarrow{ED}$ .

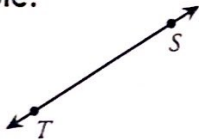
**Ray**



A **ray** is a straight path that goes on forever in **one** direction. This is ray **FG**. It is written  $\overrightarrow{FG}$ .

Write if each is a **point**, **line segment**, **line**, or **ray** and its name.

**Example:**



Line **TS** or **ST**  $\overleftrightarrow{TS}$  or  $\overleftrightarrow{ST}$

1.



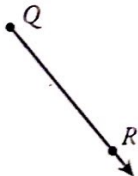
\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_

4.



\_\_\_\_\_

5.



\_\_\_\_\_

6.



\_\_\_\_\_

7.



\_\_\_\_\_

8.



\_\_\_\_\_

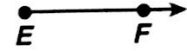
→ → →  
**One more pg!**

# \* Due Thursday! \*



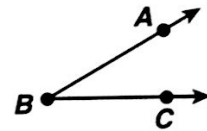
## Rays and Angles

A **ray** is the part of a line which begins at a point and continues in one direction.  $\overrightarrow{EF}$  is read as ray  $EF$



The sides of an **angle** are made up of rays.

$\overrightarrow{BA}$  and  $\overrightarrow{BC}$  make up the angle.



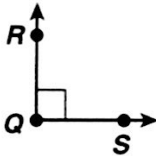
The common endpoint is the **vertex**.

$B$  is the vertex of the angle.

When you name an angle, the vertex is always the middle letter.

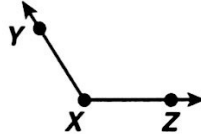
The angle is named  $\angle ABC$ ,  $\angle CBA$ , or  $\angle B$ .

A **right angle** forms a square corner.



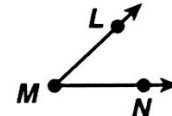
$\angle RQS$ ,  $\angle SQR$ , or  $\angle Q$

An **obtuse angle** is greater than a right angle.



$\angle YXZ$ ,  $\angle ZXY$ , or  $\angle X$

An **acute angle** is less than a right angle.



$\angle LMN$ ,  $\angle NML$ , or  $\angle M$

\*Name each angle in three ways.

\*Then classify the angle as *obtuse*, *right*, or *straight*.

1. Type of angle: right

Example

- $\angle YXZ$
- $\angle ZXY$
- $\angle X$

2. Type of angle: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

3. Type of angle: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

4. Type of angle: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

5. Type of angle: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

6. Type of angle: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

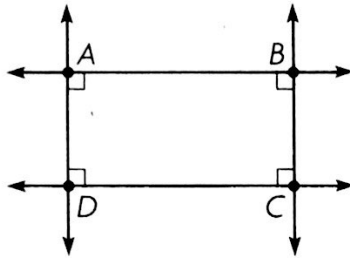
## Parallel Lines and Perpendicular Lines

**Parallel lines** are lines in a plane that are always the same distance apart. Parallel lines or line segments never meet.

In the figure, lines  $AB$  and  $CD$ , even if extended, will never meet.

The lines are parallel. Write  $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ .

Lines  $\overline{AD}$  and  $\overline{BC}$  are also parallel. So,  $\overleftrightarrow{AD} \parallel \overleftrightarrow{BC}$ .



**Intersecting lines** cross at exactly one point. Intersecting lines that form right angles are **perpendicular**.

In the figure, lines  $\overline{AD}$  and  $\overline{AB}$  are perpendicular because they form right angles at vertex  $A$ . Write  $\overleftrightarrow{AD} \perp \overleftrightarrow{AB}$ .

Lines  $\overline{BC}$  and  $\overline{CD}$  are also perpendicular. So,  $\overleftrightarrow{BC} \perp \overleftrightarrow{CD}$ .

Use the figure for 1–3.

1. Name two sides that appear to be parallel.

\_\_\_\_\_

2. Name two sides that appear to be perpendicular.

\_\_\_\_\_

3. Name two sides that appear to be intersecting, but not perpendicular.

\_\_\_\_\_

