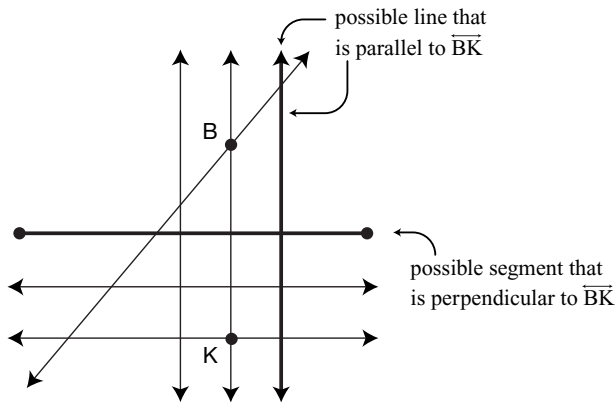


Student Activity Book

Lines and Intersections

Questions 1–8 (SAB p. 321)

1. Answers will vary. Possible answers include:  $\overrightarrow{AN}$ ,  $\overrightarrow{FJ}$ ,  $\overrightarrow{LA}$ ,  $\overrightarrow{KB}$
2. Answers will vary. Possible answers include:  $\overrightarrow{AB}$ ,  $\overrightarrow{DH}$ ,  $\overrightarrow{FI}$ ,  $\overrightarrow{MK}$
3.  $\overrightarrow{AL}$  and  $\overrightarrow{BK}$ ;  $\overrightarrow{FJ}$  and  $\overrightarrow{NK}$   
[Note: names for the lines may vary.]
4. Answers will vary. Possible answers include:  $\overrightarrow{AL}$  and  $\overrightarrow{NK}$ ;  $\overrightarrow{BK}$  and  $\overrightarrow{FJ}$
5. Figure IHKL
6. A. No intersection  
B.  $\overrightarrow{AF}$  and  $\overrightarrow{HI}$  intersect  
C. No intersection  
D.  $\overrightarrow{LK}$  and  $\overrightarrow{AB}$  intersect
- 7–8. Answers will vary.



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Name \_\_\_\_\_ Date \_\_\_\_\_

**Lines and Intersections**

The figure below shows many lines, line segments, and rays.

1. Identify and name two rays in this figure. \_\_\_\_\_
2. Identify and name two line segments. \_\_\_\_\_
3. Name two pairs of lines that appear to be parallel. \_\_\_\_\_  
\_\_\_\_\_
4. Name two lines that appear to be perpendicular. \_\_\_\_\_
5. Name a shape that appears to be a rectangle. \_\_\_\_\_
6. Draw a circle around the pairs that intersect (meet).  
A.  $\overrightarrow{LN}$  and  $\overrightarrow{FB}$                       B.  $\overrightarrow{AF}$  and  $\overrightarrow{HI}$   
C.  $\overrightarrow{IH}$  and  $\overrightarrow{AF}$                       D.  $\overrightarrow{LK}$  and  $\overrightarrow{AB}$
7. Sketch a line that is parallel to  $\overrightarrow{BK}$ .
8. Sketch a line segment that is perpendicular to  $\overrightarrow{BK}$ .

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