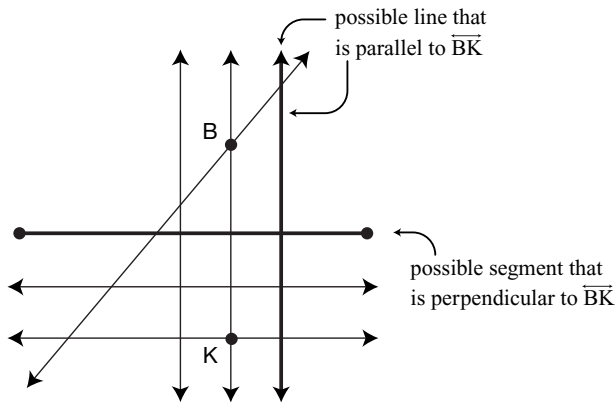## Student Activity Book

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:
$\overline{AB}$, $\overline{DH}$, $\overline{FI}$, $\overline{MK}$

3. $\overleftrightarrow{AL}$ and $\overleftrightarrow{BK}$; $\overleftrightarrow{FJ}$ and $\overleftrightarrow{NK}$
[Note: names for the lines may vary.]

4. Answers will vary. Possible answers include:
$\overleftrightarrow{AL}$ and $\overleftrightarrow{NK}$; $\overleftrightarrow{BK}$ and $\overleftrightarrow{FJ}$

5. Figure IHKL

6. **A.** No intersection
   B. $\overrightarrow{AF}$ and $\overrightarrow{HI}$ intersect
   C. No intersection
   D. $\overleftrightarrow{LK}$ and $\overrightarrow{AB}$ intersect

7–8. Answers will vary.

possible line that is parallel to $\overleftrightarrow{BK}$

possible segment that is perpendicular to $\overleftrightarrow{BK}$

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