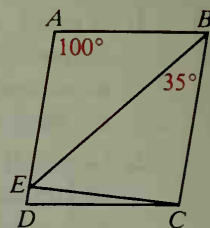


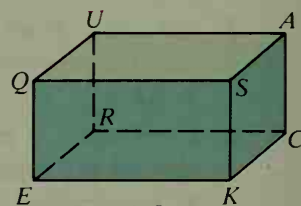
Chapter 3

Indicate the best answer by writing the appropriate letter.

- If \overrightarrow{BE} bisects $\angle ABC$, what is the measure of $\angle AEB$?
a. 30 b. 35 c. 40 d. 45
- If $m\angle ABE = 40$, what is the measure of $\angle DEB$?
a. 140 b. 40 c. 75 d. 135
- If $\overline{AB} \parallel \overline{DC}$, what is the measure of $\angle D$?
a. 70 b. 80 c. 90 d. 100
- Which of the following would allow you to conclude that $\overline{AD} \parallel \overline{BC}$?
a. $\angle DEC \cong \angle BCE$ b. $\angle ABE \cong \angle BEC$
c. $\angle BEC \cong \angle BCE$ d. $m\angle A + m\angle AEC = 180$
- What is the measure of each interior angle of a regular octagon?
a. 150 b. 144 c. 140 d. 135
- The plane containing Q, S, A, U appears to be parallel to the plane containing which points?
a. Q, E, K, S b. E, K, C, R
c. R, E, Q, U d. U, R, C, A
- Which of the following appear to be skew lines?
a. \overleftrightarrow{QE} and \overleftrightarrow{AC} b. \overleftrightarrow{QU} and \overleftrightarrow{KC}
c. \overleftrightarrow{AC} and \overleftrightarrow{UR} d. \overleftrightarrow{QS} and \overleftrightarrow{AC}
- \overleftrightarrow{EK} does *not* appear to be parallel to the plane containing which points?
a. U, A, C b. Q, U, A c. Q, U, R d. Q, S, C
- The sum of the measures of the interior angles of a certain polygon is the same as the sum of the measures of its exterior angles. How many sides does the polygon have?
a. four b. six c. eight d. ten
- What is the next number in the sequence 1, 2, 4, 7, 11, ... ?
a. 17 b. 13 c. 16 d. 15
- \overline{AC} is a diagonal of regular pentagon $ABCDE$. What is the measure of $\angle ACD$?
a. 36 b. 54 c. 72 d. 108
- A, B, C , and D are coplanar points. $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$, $\overleftrightarrow{AB} \perp \overleftrightarrow{AC}$, and $m\angle ACD = 2x + 8$. Find the value of x .
a. 41 b. 49 c. 90 d. 180
- What is the *principal* basis for inductive reasoning?
a. definitions b. previously proved theorems
c. postulates d. past observations



Exs. 1-4



Exs. 6-8