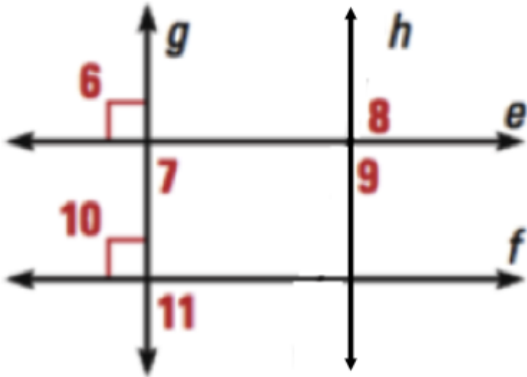


LEVEL: EMERGING

Directions: Use the following diagram to determine whether enough information is given to conclude that the statement is true in questions 1 through 6. Explain your answers.



1) $g \parallel h$

2) $\angle 7 \cong \angle 10$

3) $\angle 6 \cong \angle 8$

4) $\angle 7 \cong \angle 11$

5) $\angle 7 \cong \angle 9$

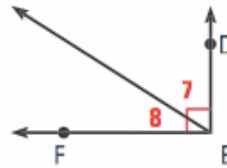
6) $\angle 6 \cong \angle 11$

LEVEL: PROFICIENT

Directions: Fill in the following two-column proof.

7) Given: $\overline{ED} \perp \overline{EF}$

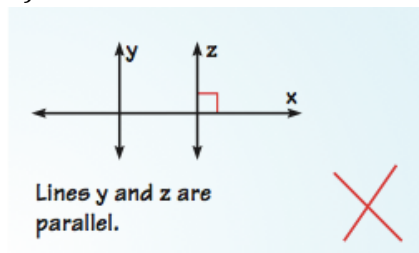
Prove: $\angle 7$ and $\angle 8$ are complementary.



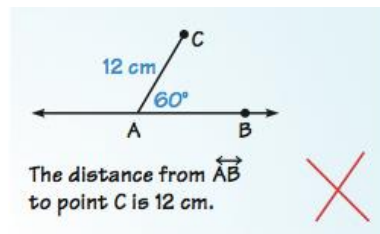
Statements	Reasons
(1)	(1)
(2)	(2)
(3)	(3)
(4)	(4)
(5)	(5)
(6)	(6)

Error Analysis: Explain why the statement about the figure is incorrect.

8)

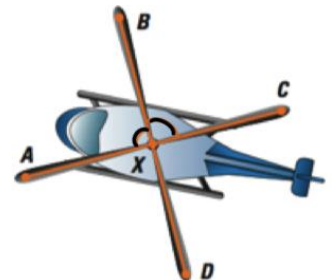


)



LEVEL: MASTERY

9) In the helicopter at the right, are $\angle AXB$ and $\angle CXB$ right angles? Explain.



Constructions

Directions: Construct a perpendicular line from a point on the line.

10)



11)



Directions: Construct a perpendicular line to the original line that passes through the given point.

12)



13)

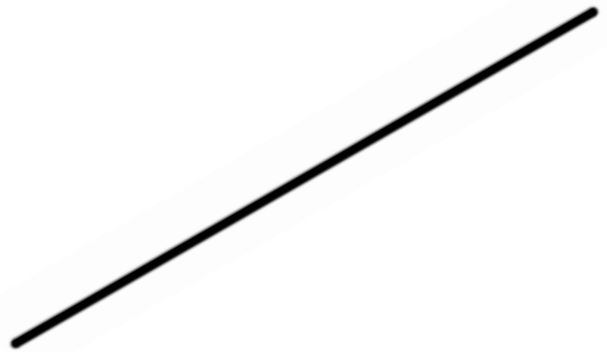


Directions: Construct a line parallel to the given one.

14)



15)



Directions: Construct a line parallel to the given one, through the given point.

16)



17)

