

Name _____ Class _____ Date _____

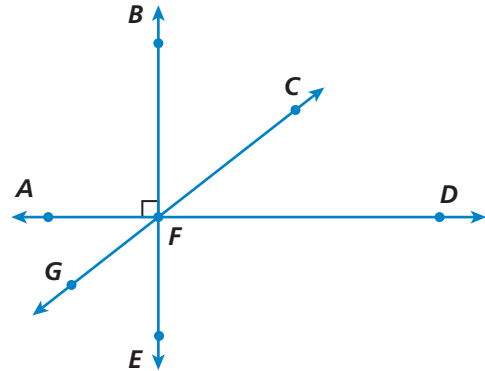
Practice It!



MA.8.G.2.2 Classify and determine the measure of angles, ...

Angle Relationships

Use the figure at the right for Exercises 1–7.



1. Name a right angle in the figure.

2. Name two acute angles in the figure.

3. Name two obtuse angles in the figure.

4. Name an angle adjacent to $\angle CFD$.

5. Name a pair of complementary angles in the figure. _____

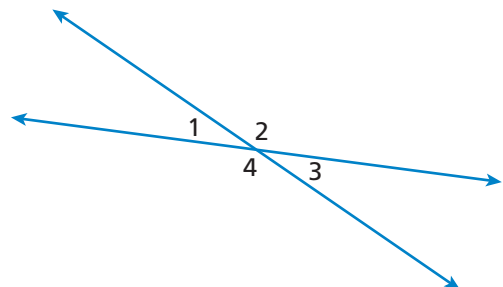
6. Name three pairs of supplementary angles in the figure. _____

7. Suppose that $\angle CFD$ measures 49° . What is the measure of $\angle GFE$? Justify your answer.

Use the figure at the right for Exercises 8–9.

8. If $m\angle 1 = 24^\circ$, find $m\angle 2$.

9. Find $m\angle 3$.



Practice It!

Angle Relationships

Homework

The table shows which *Practice It* exercises correspond to which *Learn It* examples.

Learn It Example	Exercises
1	1–6
2	8, 9
3	7

Homework Quick Check

Quickly check key concepts.

Exercises 1, 3, 5, 7, 9

Additional Practice

- Student Textbook pp. 402–404
- Chapter Resources
9-1 Practice (Levels A, B, C)

Explore It!

Learn It!

Summarize It!

Practice It!

Apply It!

9-1

Name _____ Class _____ Date _____

Practice It!

Angle Relationships

Use the figure at the right for Exercises 1–7.

- Name a right angle in the figure.
Possible answer: $\angle AFE$
- Name two acute angles in the figure.
 $\angle BFC$, $\angle CFD$
- Name two obtuse angles in the figure.
Possible answer: $\angle AFC$, $\angle EFC$
- Name an angle adjacent to $\angle CFD$.
Possible answer: $\angle BFC$
- Name a pair of complementary angles in the figure. $\angle BFC$ and $\angle CFD$
- Name three pairs of supplementary angles in the figure. Possible answer: $\angle AFC$
and $\angle CFD$; $\angle AFB$ and $\angle AFE$; $\angle BFC$ and $\angle CFE$
- Suppose that $\angle CFD$ measures 49° . What is the measure of $\angle GFE$? Justify your answer.
 41° ; $\angle BFC$ and $\angle CFD$ are complementary angles, so the sum of their measures is 90° ; $90 - 49 = 41^\circ$. $\angle BFC$ and $\angle GFE$ are vertical angles, so $\angle BFC \cong \angle GFE$, $m\angle GFE = 41^\circ$.

Use the figure at the right for Exercises 8–9.

- If $m\angle 1 = 24^\circ$, find $m\angle 2$.
 156°
- Find $m\angle 3$.
 24°

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