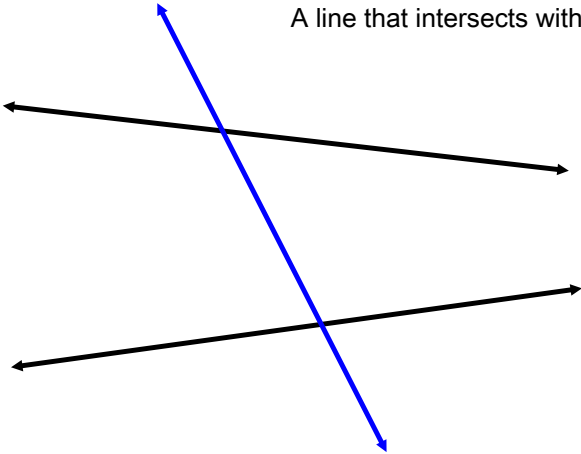


3.2 Angles Formed by a Transversal

Objective: Students will be able to identify alternate interior, alternate exterior, corresponding, and same-side interior angles

Transversal Lines

A line that intersects with at least two other lines

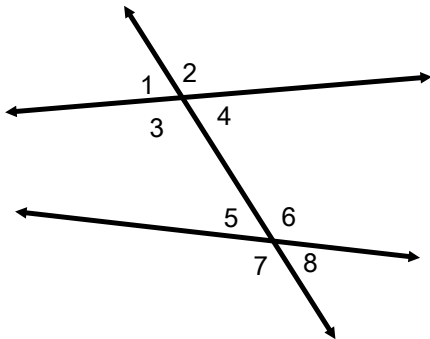


Angle pairs formed by a transversal

1. _____
2. _____
3. _____
4. _____

Alternate Interior Angles

Alternate Interior Angles are pairs of angles that are on the _____ and on _____ sides of the transversal.

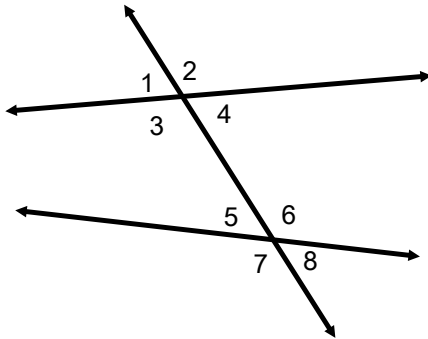


\angle ___ and \angle ___ are Alternate Interior angles

\angle ___ and \angle ___ are Alternate Interior angles

Alternate Exterior Angles

Alternate Exterior Angles are pairs of angles that are on the _____ and on _____ sides of the transversal.

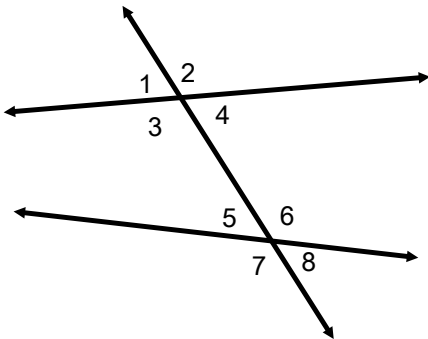


\angle _____ and \angle _____ are Alternate Exterior angles

\angle _____ and \angle _____ are Alternate Exterior angles

Same-Side Interior Angles

Same-Side Interior Angles are pairs of angles that on the _____ and on _____ sides of the transversal.

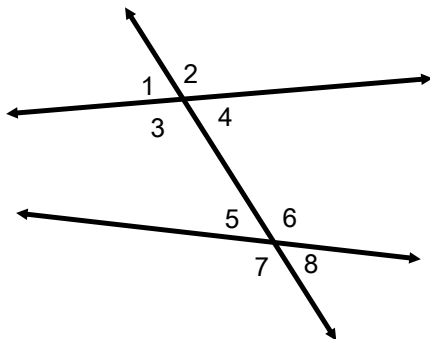


\angle _____ and \angle _____ are Same-Side Interior Angles

\angle _____ and \angle _____ are Same-Side Interior Angles

Corresponding Angles

Corresponding angles are pairs of angles that are in the s_____ p_____



\angle _____ and \angle _____ are corresponding angles

\angle _____ and \angle _____ are corresponding angles

\angle _____ and \angle _____ are corresponding angles

\angle _____ and \angle _____ are corresponding angles

Give an example of each angle pair

Alternate Interior Angles

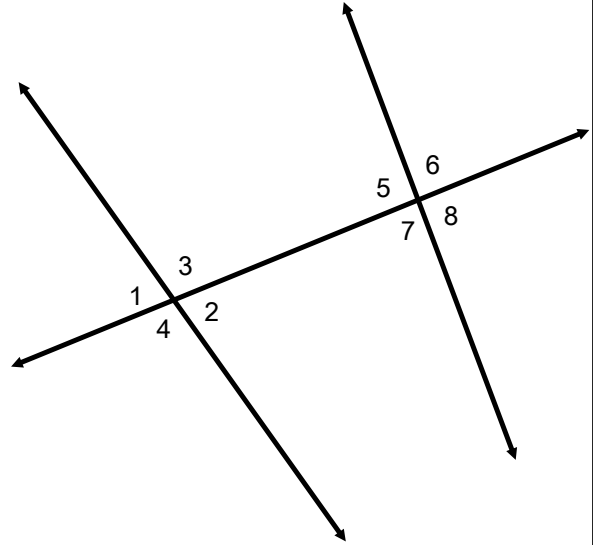
\angle ____ and \angle ____ are Alternate Interior angles

\angle ____ and \angle ____ are Alternate Interior angles

Alternate Exterior Angles

\angle ____ and \angle ____ are Alternate Exterior angles

\angle ____ and \angle ____ are Alternate Exterior angles



Give an example of each angle pair

Same-Side Interior Angles

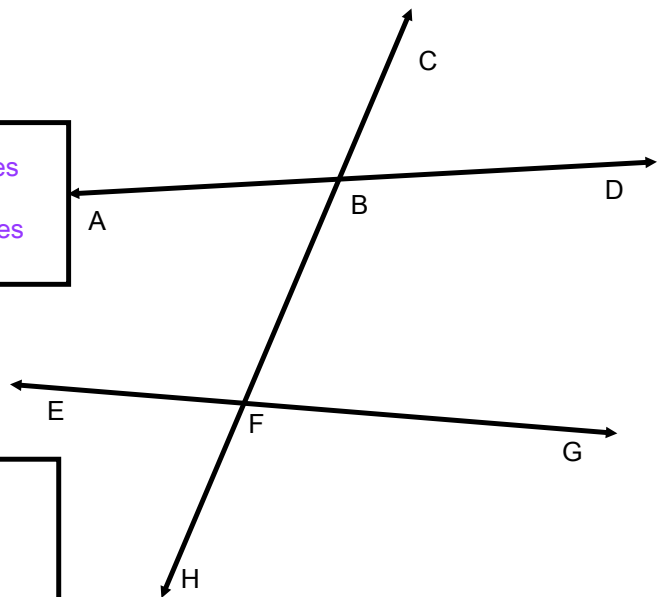
\angle ____ and \angle ____ are Same-Side Interior Angles

\angle ____ and \angle ____ are Same-Side Interior Angles

Corresponding Angles

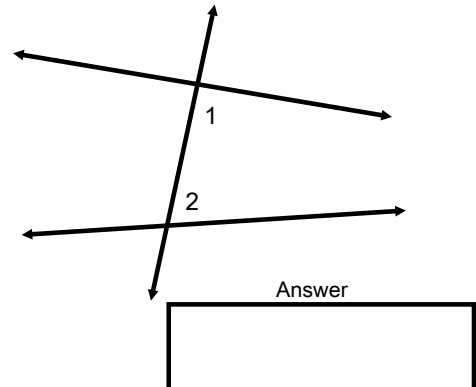
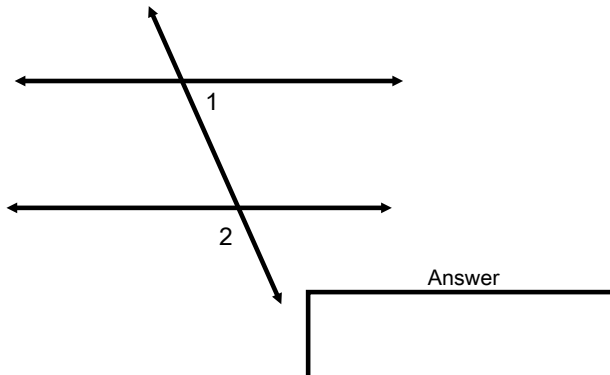
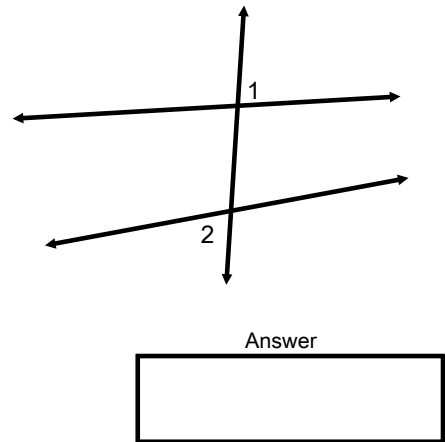
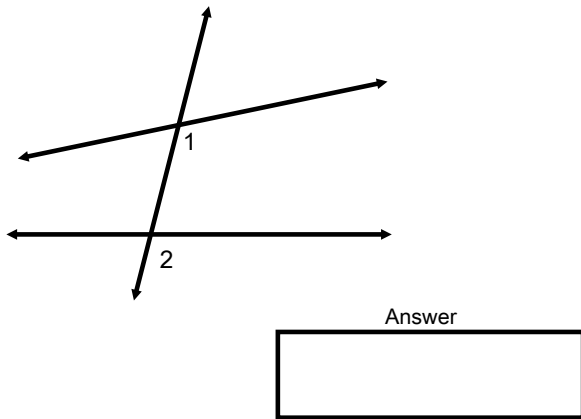
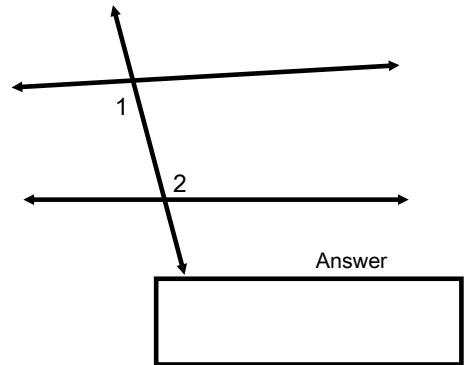
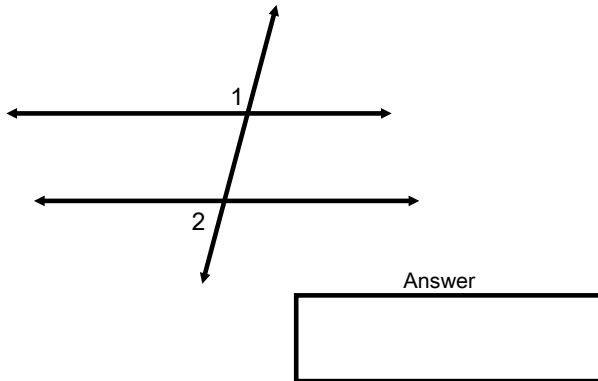
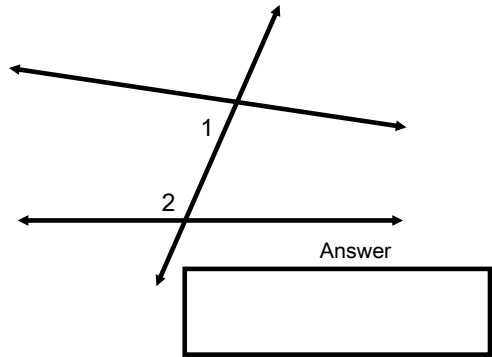
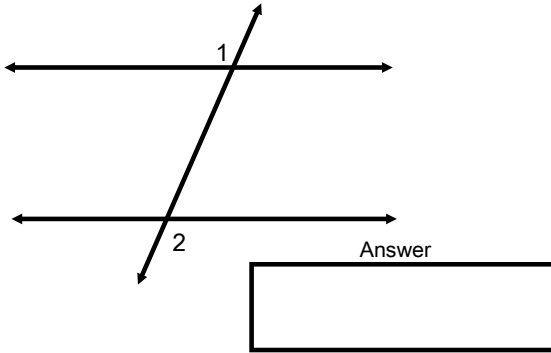
\angle ____ and \angle ____ are Corresponding Angles

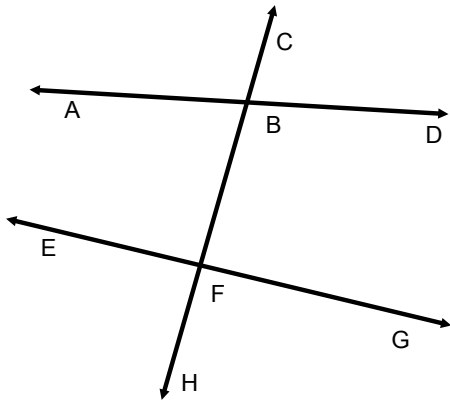
\angle ____ and \angle ____ are Corresponding Angles



Independent Practice

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or same side interior or NEITHER.

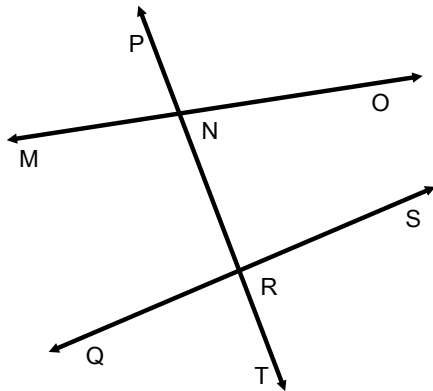




Write the name of each angle pair

$\angle ABC$ and $\angle HFG$

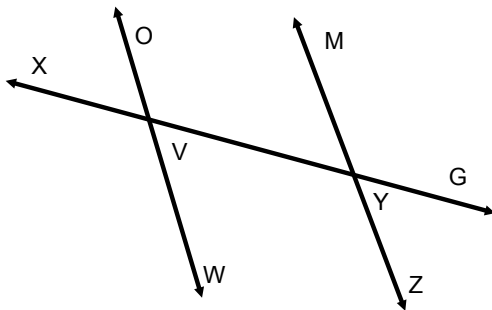
$\angle DBH$ and $\angle GFC$



Write the name of each angle pair

$\angle MNR$ and $\angle SRN$

$\angle QRP$ and $\angle MNP$



Name two pairs of alternate interior angles

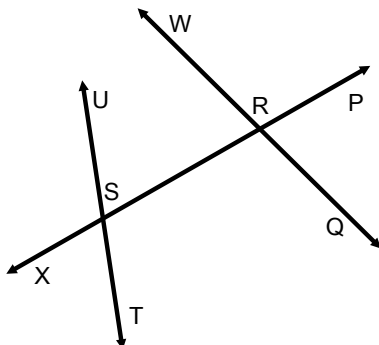
1. \angle _____ and \angle _____

2. \angle _____ and \angle _____

Name two pairs of corresponding angles

1. \angle _____ and \angle _____

2. \angle _____ and \angle _____



Name two pairs of alternate exterior angles

1. \angle _____ and \angle _____

2. \angle _____ and \angle _____

Name two pairs of same side interior angles

1. \angle _____ and \angle _____

2. \angle _____ and \angle _____

Give one example of each angle pair

A. alternate interior angles

\angle _____ and \angle _____

B. same-side interior angles

\angle _____ and \angle _____

C. alternate exterior angles

\angle _____ and \angle _____

D. corresponding angles

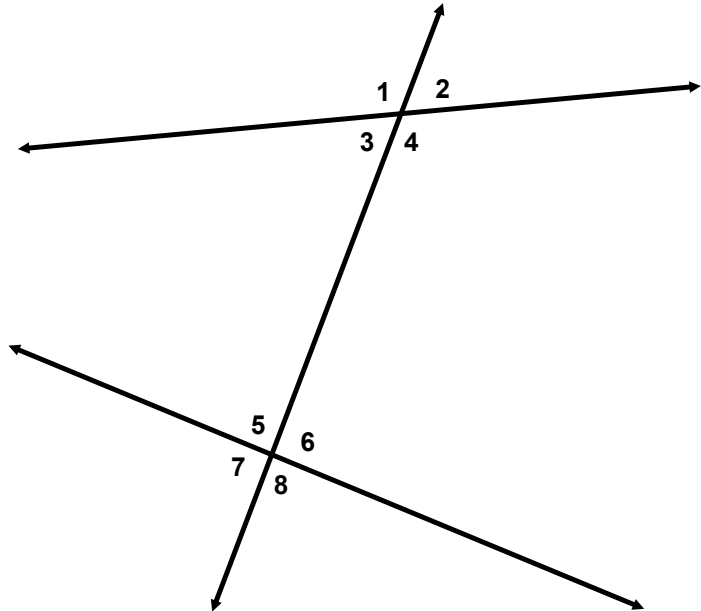
\angle _____ and \angle _____

E. Vertical Angles

\angle _____ and \angle _____

F. Linear Pair

\angle _____ and \angle _____



Give one example of each angle pair

A. alternate interior angles

\angle _____ and \angle _____

B. same-side interior angles

\angle _____ and \angle _____

C. alternate exterior angles

\angle _____ and \angle _____

D. corresponding angles

\angle _____ and \angle _____

E. Vertical Angles

\angle _____ and \angle _____

F. Linear Pair

\angle _____ and \angle _____

