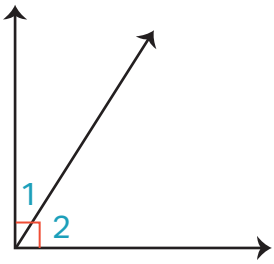
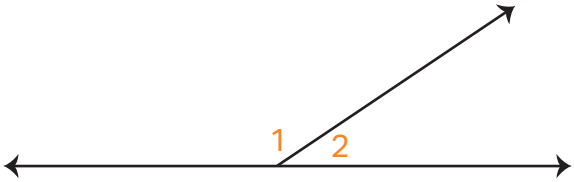
Identifying Complementary, Supplementary, Vertical, and Adjacent Angles

Complementary angles have a sum of 90°. Here, ∠1 and ∠2 are complementary angles.

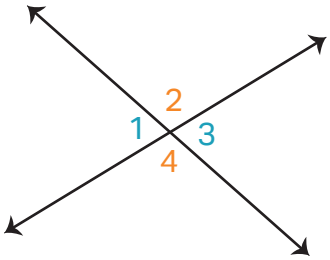


Supplementary angles have a sum of 180°. Here, ∠1 and ∠2 are supplementary angles.

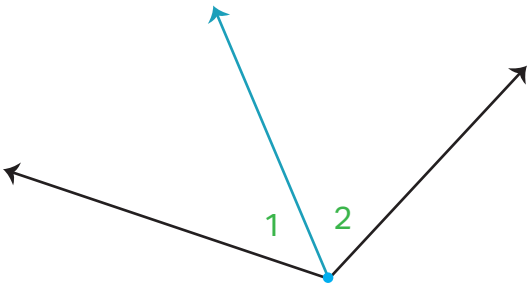


Vertical angles are opposite angles that form when two lines intersect. Vertical angles are congruent. Here, there are two sets of vertical angles:

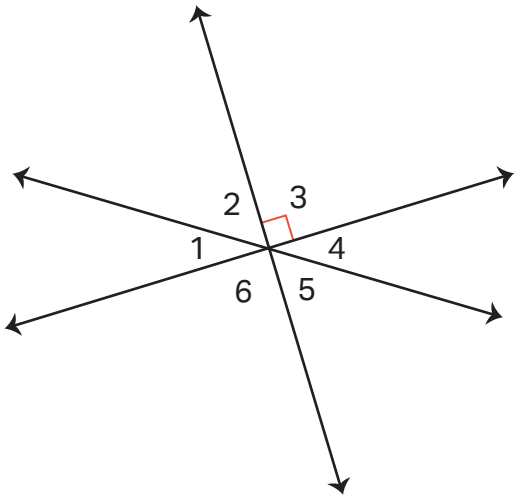
∠1 and ∠3 ∠2 and ∠4



Adjacent angles share a common vertex and side. Here, ∠1 and ∠2 are adjacent angles.



Try it out! Answer each question.



1) Name an angle that is adjacent to ∠1. **∠2 or ∠6**

2) Name an angle that is adjacent to ∠4. **∠3 or ∠5**

3) Name a pair of angles that are complementary.

∠1 and ∠2 or ∠4 and ∠5

4) Name a pair of vertical angles. **∠1 and ∠4 , ∠2 and ∠5 , or ∠3 and ∠6**

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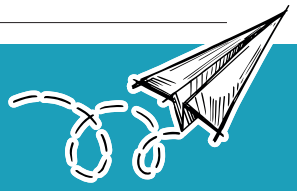
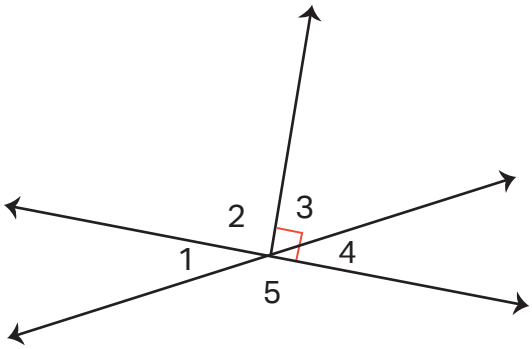


Keep going! Answer each question.



1) Name the angle that is vertical to ∠1. **∠4**

2) Name an angle that is adjacent to ∠3. **∠2 or ∠4**

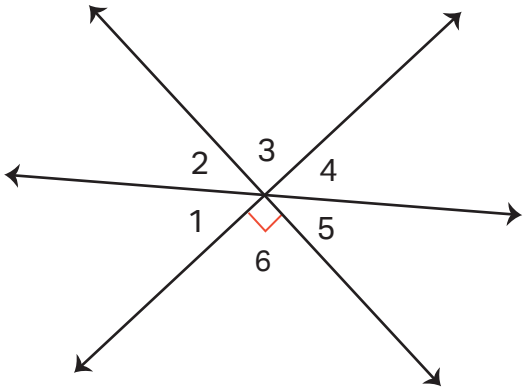
3) Name an angle that is adjacent to ∠2. **∠1 or ∠3**

4) Which angle is complementary to ∠4? **∠3**

5) Which angle is supplementary to ∠5? **∠1 or ∠4**

6) Name three angles that are supplementary.

∠2, ∠3 , and ∠4



1) Name an angle that is adjacent to ∠4. **∠3 or ∠5**

2) Name the angle that is vertical to ∠6. **∠3**

3) Name the angle that is vertical to ∠5. **∠2**

4) Which angle is supplementary to ∠3? **∠6**

5) Name the angle that is complementary to ∠2, other than ∠1. **∠4**

6) Name three angles that are supplementary.

∠1 (or ∠4), ∠2 (or ∠5), and ∠3 (or ∠6) *
***many variations of the correct answer**