

Solve each problem for the requested value.

1. A transversal cuts across parallel lines. Two angles make an alternate interior angle pair. If one has a measure of $7x - 6$ degrees, and the other has a measure of 50° , what is the measure of the larger angle?
2. A transversal cuts across parallel lines. Two angles make a same-side interior angle pair. If one has a measure of $x + 89$ degrees, and the other has a measure of $x + 109$ degrees, what is the measure of the larger angle?
3. A transversal cuts across parallel lines. Two angles make an alternate exterior angle pair. If one has a measure of $10x - 6$ degrees, and the other has a measure of 104° , what is the measure of the smaller angle?
4. A transversal cuts across parallel lines. Two angles make a same-side interior angle pair. If one has a measure of $x + 88$ degrees, and the other has a measure of 100° , what is the measure of the smaller angle?
5. A transversal cuts across parallel lines. Two angles make an alternate interior angle pair. If one has a measure of $10x + 10$ degrees, and the other has a measure of $12x - 2$ degrees, what is the measure of the larger angle?
6. A transversal cuts across parallel lines. Two angles make a same-side interior angle pair. If one has a measure of $14x + 3$ degrees, and the other has a measure of 65° , what is the measure of the larger angle?
7. A transversal cuts across parallel lines. Two angles are corresponding angles. If one has a measure of $6x + 16$ degrees, and the other has a measure of 70° , what is the measure of the larger angle?
8. A transversal cuts across parallel lines. Two angles make a same-side interior angle pair. If one has a measure of $13x + 7$ degrees, and the other has a measure of 95° , what is the measure of the smaller angle?
9. A transversal cuts across parallel lines. Two angles are corresponding angles. If one has a measure of $x + 80$ degrees, and the other has a measure of 72° , what is the measure of the smaller angle?
10. A transversal cuts across parallel lines. Two angles make a linear pair. If one has a measure of $11x + 13$ degrees, and the other has a measure of 90° , what is the measure of the larger angle?
11. A transversal cuts across parallel lines. Two angles are vertical angles. If one has a measure of $8x - 1$ degrees, and the other has a measure of $7x + 6$ degrees, what is the measure of the smaller angle?
12. A transversal cuts across parallel lines. Two angles make a linear pair. If one has a measure of $x + 79$ degrees, and the other has a measure of $x + 119$ degrees, what is the measure of the larger angle?