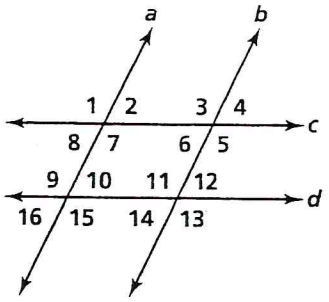
Unit 2 / Chapter 3 Review

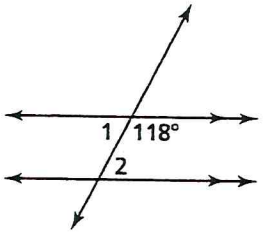
Decide whether each statement must be *true* or *false*. Use the figure for Exercises 1–

1. ∠2 and ∠10 are corresponding angles.
2. ∠3 and ∠7 are alternate interior angles.
3. ∠1 and ∠8 are same-side interior angles.
4. If ∠11 and ∠15 are congruent, then $a \parallel b$.
5. If ∠14 and ∠15 are supplementary, then $c \parallel d$.



Find $m\angle 1$ and $m\angle 2$. Determine in each exercise whether ∠1 and ∠2 are alternate interior angles, same-side interior angles, or corresponding angles. State the theorem or postulate used.

6.



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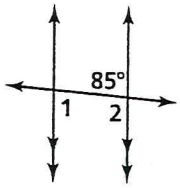

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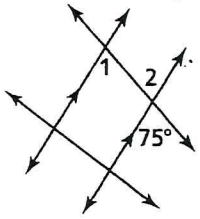
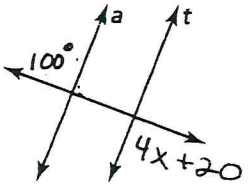
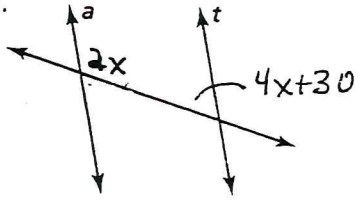


***Algebra* Find the value of x for which $a \parallel t$.** Show all work.

9.

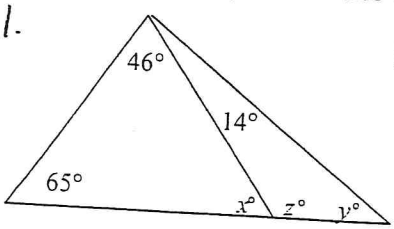


10.



Find the values of x, y, and z. The diagram is not to scale. Show all work.

11.



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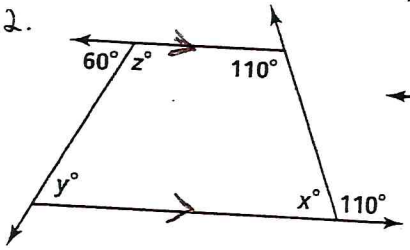

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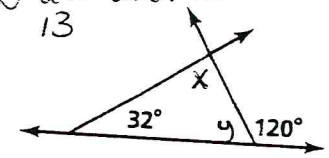

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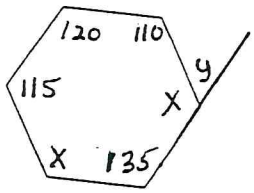

Draw a

15. isosceles right triangle
16. equilateral
17. acute isosceles triangle

} use correct tic marks