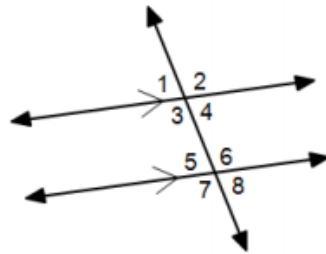


10.3 Lines and Angles

Use the figure below for problems 1–2.



1. Identify the pairs of angles that are vertical angles, corresponding angles, and alternate interior angles.

<u>Vertical Angles</u>	<u>Corresponding Angles</u>	<u>Alternate Interior Angles</u>

2. Given $m\angle 1 = 72^\circ$, find the measure of the remaining angles.

$m\angle 2 =$

$m\angle 3 =$

$m\angle 4 =$

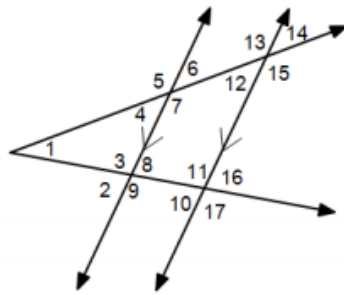
$m\angle 5 =$

$m\angle 6 =$

$m\angle 7 =$

$m\angle 8 =$

Use the figure below for problems 3–4.



3. Identify the pairs of angles that are vertical angles, corresponding angles, and alternate interior angles.

<u>Vertical Angles</u>	<u>Corresponding Angles</u>	<u>Alternate Interior Angles</u>

4. Given $m\angle 5 = 110^\circ$ and $m\angle 17 = 95^\circ$, find the measure of the remaining angles.

$m\angle 1 =$

$m\angle 2 =$

$m\angle 3 =$

$m\angle 4 =$

$m\angle 6 =$

$m\angle 7 =$

$m\angle 8 =$

$m\angle 9 =$

$m\angle 10 =$

$m\angle 11 =$

$m\angle 12 =$

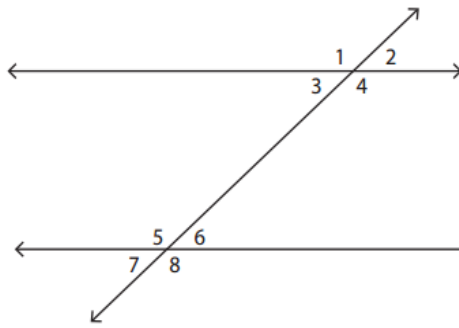
$m\angle 13 =$

$m\angle 14 =$

$m\angle 15 =$

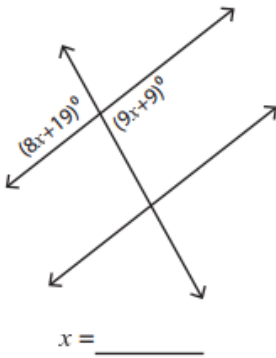
$m\angle 16 =$

5. If $m\angle 3 = 40^\circ$, find the measure of $\angle 4$
6. If $m\angle 2 = 40^\circ$, find the measure of $\angle 6$
7. If $m\angle 6 = 71^\circ$, find the measure of $\angle 8$
8. If $m\angle 5 = 46^\circ$, find the measure of $\angle 4$

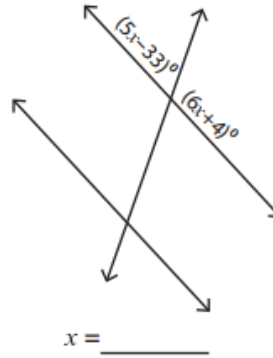


Find x .

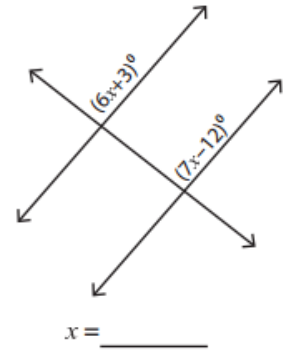
9.



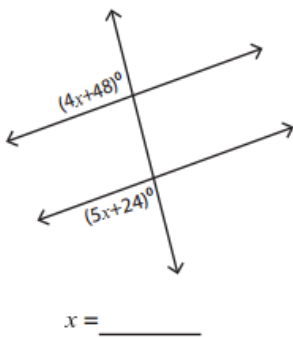
10.



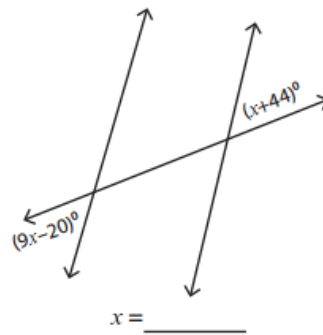
11.



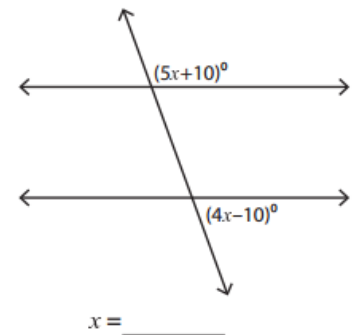
12.



13.



14.



Solve using the Quadratic Formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

12. $2x^2 + 7x + 6 = 0$

13. $x^2 - 7x + 2 = 0$