| Int 2 Acc | Homework 1-3 | Unit 1 |
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Classify each pair of angles as alternate interior, alternate exterior, consecutive interior, corresponding, vertical, or neither. Then identify if the angle pair is supplementary or congruent (or neither).

1. $\angle 1 \& \angle 5$
2. $\angle 3 \& \angle 5$

3. $\angle 2 \& \angle 3$
4. $\angle 4 \& \angle 8$

5. $\angle 2 \& \angle 5$
6. $\angle 1 \& \angle 4$


Classify each pair of angles as alternate interior, alternate exterior, consecutive interior, corresponding, vertical, or neither. Then identify if the angle pair is supplementary or congruent (or neither).
7. $\angle 5 \& \angle 6$
8. $\angle 3 \& \angle 8$
9. $\angle 2 \& \angle 4$

10. $\angle 8 \& \angle 3$
11. $\angle 4 \& \angle 6$
12. $\angle 7 \& \angle 3$


Find the indicated angle measure. (There MAY not be enough information to find the value.)
13. $m \angle 6$
14. $m \angle 3$
15. $m \angle 4$

16. $m \angle 5$
17. $m \angle 6$
18. $m \angle 11$


For problems $25 \& 26$, use the figure at the right.
25. List all the angles congruent to the given angle.
26. List all the angles congruent to $\angle \mathbf{5}$.
19. $m \angle 10$
20. $m \angle 8$
21. $m \angle 4$

22. $m \angle 7$
23. $m \angle 5$
24. $m \angle 12$

$\qquad$
5. List all the angles congruent to the given angle.
26. Listall

27. The symbol below is an equal sign with a slash through it. It is used to represent not equal to in math, as in $\mathbf{1 \neq 2}$. If
$m \angle 1=108^{\circ}$, classify the relationship between $\angle \mathbf{1}$ and $\angle \mathbf{2}$. Then find $\boldsymbol{m} \angle \mathbf{2}$.
Assume the equal sign consists of parallel lines.

28. Arthur is designing a bridge for science class using parallel supports for the top and bottom beam. Find $\boldsymbol{m} \angle \mathbf{2}$ if $\boldsymbol{m} \angle \mathbf{1}=\mathbf{6 0}{ }^{\circ}$


Find the values of $x$ and $y$.
31.

32.

33.

29. Line $a$ and line $b$ are not parallel. Are angle $1 \&$ angle 2 congruent?

30. The drawing below shows the side view of a drawing easel. The brace is parallel to the ground. If $\boldsymbol{m} \angle \boldsymbol{A}$ is $\mathbf{8 2}^{\circ}$, what is the measure of $\boldsymbol{L} \boldsymbol{B}$ ?

34.

35.

36.

37. Solve for $x$ and $y$.

40. Solve for $x$ and $y$.

41. Solve for $x$.

42. Solve for $x$.
39. Solve for $x$ and $y$.


$$
(2 x-3+3 x-7)^{\circ}
$$

