Equations - Day 2
Notes

Name $\qquad$
Date $\qquad$ Period $\qquad$

You can only combine terms that have the same variable.

## *Remember to keep the sign with the number!!

Examples:

1. $10 x-6 y+5 x$
2. $3 y-9 y+5 w+2 w$

## Solving - Combining Like Terms

We simplify expressions like $3 a+5 a+2$

We solve equations like $\quad 3 a+5 a+2=34$

ONLY find solutions by solving when there is an equal sign.

> SIMPLIFY
> $9 x-(3 x-8)$

$$
\begin{gathered}
\text { SOLVE } \\
9 x-(3 x-8)=20
\end{gathered}
$$

3. $4 x+2 x=24$
4. $5 a-2 a=-30$

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Name $\qquad$
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5. $-6 x-x+3=-4$
6. $9-2 c+6 c=29$
7. $2 b+7-3 b=-5$
8. $-19=10 x+8-x$
9. The sides of a triangle are $(x+12),(2 x+4)$, and $(x)$. Find the value of $x$ if the perimeter of the triangle is 180 inches.
10. The sides of a triangle are $(x+3),(x+4)$, and $(x+7)$. Find the length of the longest side if the perimeter of the triangle is 104 inches.

