$\qquad$
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Section 1.3 - Solving Equation:
Alg 2 Trig G Notes
Each of the words below can be replaced by a symbol in an equation. For example, the words "increased by" means to add. Rewrite each word in the appropriate column.


More vocab -
Expression: a mathematical statement with ND EQUAL SIGN $\left(3 x+x^{2}\right)$
Equation: a mathematical sentence stating that 2 expressions are equal Inequality: $1.1 " \quad 110$ one expression is greater/lees then the other
WRITE AN ALGEBRAIC EXPRESSION TO REPRESENT EACH VERBAL EXPRESSION:

1. The sum of six times "a number" and $25 \quad 6 x+25$
2. Four times the sum of a number and 3

$$
4(x+3)
$$


3. 7 less than fifteen times a number

$$
15 n-7
$$

4. The product of 3 and the sum of 11 and a number

$$
3 \cdot(11+x)
$$

5. Four times the square of a number increased by five times the same number

$$
4\left(x^{2}+5 x\right)
$$

WRITE AN ALGEBRAIC EQUATION TO REPRESENT EACH VERBAL EXPRESSION:
6. The sum of a number and 7 is 13 .

$$
x+7=13
$$

7. A number divided by 8 is equal to that number squared. $\frac{x}{8}=x^{2}$
8. Seven times a number minus 2 is $19 . \quad 7 n-2=19 \quad 7(n-2)=19$
9. 9 plus the product of a number and 4 is 60 .

$$
9+(x \cdot 4)=60 \quad 9+4 x=60
$$

WRITE A VERBAL EXPRESSION TO REPRESENT EACH EQUATION:
10. $x-6 \stackrel{\text { is }}{=} 9$ a number minus 6 is 9
11. $h^{2}+5 h=10$ the square of a number increased by 5 times the number $\begin{gathered}\text { is } 10\end{gathered}$
12. $3+3 n=2-n \quad 3$ plus 3 times a number is equal to 2 minus the number

