Algebra I Worksheet \#3 Unit 4 page 1
Solve for x .

1. $3(x+2)=21$
2. $3(x+2)=c$
3. $3(x+b)=c$
4. $\mathbf{a}(\mathrm{x}+\mathrm{b})=\mathbf{c}$
5. $4(x-3)=20$
6. $4(x-3)=c$
7. $4(x-b)=c$
8. $\mathbf{a}(\mathrm{x}-\mathrm{b})=\mathbf{c}$
9. $6 x+4=4 x+10$
10. $6 x+b=4 x+d$
11. $\mathbf{a x}+\mathrm{b}=\mathbf{c x}+\mathrm{d}$
12. $8 x-10=3 x+20$
13. $8 x-b=3 x+d$
14. $\mathbf{a x}-\mathrm{b}=\mathbf{c x}+\mathrm{d}$
15. $\mathbf{x}+\mathrm{p}=\mathrm{k}$
16. $\mathrm{x}-\mathrm{p}=\mathrm{k}$
17. $p x=k$
18. $\frac{\mathrm{x}}{\mathrm{p}}=\mathrm{k}$
19. $\mathbf{a x}+\mathbf{b}=\mathbf{c}$
20. $\mathbf{a x}-\mathrm{b}=\mathbf{c}$
21. $a(x+b)=c$
22. $\frac{x+a}{b}=c$

Solve each formula for the indicated variable.
23. $A=L W$ solve for $W$
25. $\mathrm{V}=\mathrm{LWH}$ solve for W
27. $\mathbf{i}=$ prt solve for $\mathbf{t}$
29. $A=p(1+r t)$ solve for $r$
31. $P Q=F+V Q$ solve for $Q$
33. $\mathbf{R}(\mathbf{a}+\mathbf{b})=\mathbf{a b}$ solve for $b$
34. $K=A+(N-1) D$ solve for $\mathbf{N}$

