Solve for x.

1.
$$3(x+2) = 21$$
 2. $3(x+2) = c$ 3. $3(x+b) = c$ 4. $a(x+b) = c$

2.
$$3(x+2)=c$$

3.
$$3(x + b) = 0$$

4.
$$a(x + b) = c$$

5.
$$4(x-3) = 20$$
 6. $4(x-3) = c$ 7. $4(x-b) = c$ 8. $a(x-b) = c$

6.
$$4(x-3)=c$$

7.
$$4(x-b)=0$$

8.
$$a(x - b) = c$$

9.
$$6x + 4 = 4x + 10$$
 10. $6x + b = 4x + d$ 11. $ax + b = cx + d$

10.
$$6x + b = 4x + 6$$

11.
$$ax + b = cx + d$$

12.
$$8x - 10 = 3x + 20$$
 13. $8x - b = 3x + d$ 14. $ax - b = cx + d$

13.
$$8x - b = 3x + c$$

14.
$$ax - b = cx + d$$

15.
$$x + p = k$$

16.
$$x - p = k$$

17.
$$px = k$$

15.
$$x + p = k$$
 16. $x - p = k$ 17. $px = k$ 18. $\frac{x}{p} = k$

19.
$$ax + b = 0$$

20.
$$ax - b = c$$

21.
$$a(x + b) = c$$

19.
$$ax + b = c$$
 20. $ax - b = c$ 21. $a(x + b) = c$ 22. $\frac{x + a}{b} = c$

Algebra I Worksheet #3 Unit 4 page 2

Solve each formula for the indicated variable.

23.
$$A = LW$$
 solve for W

24.
$$P = 2L + 2W$$
 solve for W

25.
$$V = LWH$$
 solve for W

26.
$$V = \pi r^2 h$$
 solve for h

27.
$$i = prt$$
 solve for t

28.
$$ax + by = c$$
 solve for y

29.
$$A = p(1 + rt)$$
 solve for r

30.
$$C = P + a(n - 10)$$
 solve for n

31.
$$PQ = F + VQ$$
 solve for Q

32.
$$y = m(x - a) + c$$
 solve for a

33.
$$R(a + b) = ab$$
 solve for **b**

34.
$$K = A + (N - 1)D$$
 solve for N