## HW 1-5

## Int 2

Solve each equation or inequality. Graph the solution set for inequalities.

1. $7 a+10=2 a$
2. $\frac{3}{4} x+17>2\left(\frac{5}{8} x-34\right)$
3. $13 x=24+4 x$
4. $3-\frac{2}{9} b=\frac{1}{3} b-7$
5. $11 x+3=24-4 x$
6. $2(3 x+4)=5 x+7$
7. $5 p+2=4 p-1$
8. $\quad 15-\frac{1}{6} n=\frac{1}{6} n-1$
9. Alma is solving the equation $\mathbf{4 a - 5}=\mathbf{2 a - 3}$. Circle her mistake and correct it.

10. What is the solution of the following equation: $5 x+7=-\mathbf{3 x}-\mathbf{9}$
A. -2
B. 1
C. 2
D. 8
11. Is $m=30$ the solution for

$$
16-\frac{3}{5} m=-2
$$

12. Is $r=13$ the solution for $12 r-16=10+14 r$
13. Is $x=-5$ the solution for $-7-\frac{2}{3} x=\frac{4}{3} x+3$

Solve each equation.
14. $-6 f+13=2 f-11$
15. $2.5 h-15=4 h$
16. $2 z-31=-9 z+24$

Write an equation to find the value of $\boldsymbol{x}$ so that each pair of polygons has the same perimeter. Then solve.
17.

18.

19. Find the value of $x$ so that the polygons have the same perimeter.

(A) 4
(C) 2
(B) 3
(D) 1
20. Which of the following equations has a solution of 5 ?
(F) $-12 x-6=-10 x+4$
(G) $12 x-6=10 x+4$
(H) $12 x+6=10 x-4$
(I) $12 x-6=10 x-4$
21. Carpet cleaner A charges $\$ 28.25$ plus $\$ 18$ a room. Carpet cleaner B charges $\$ 19.85$ plus $\$ 32$ a room. Which equation can be used to find the number of rooms for which the total cost of both carpet cleaners is the same?
(A) $28.25 x+18=19.85 x+32$
(C) $28.25+18 x=19.85+32 x$
(B) $28.25+32 x=19.85+18 x$
(D) $(28.25+18) x=(19.85+32) x$

Solve each equation or inequality. Graph the solution set for inequalities.
22. $8 g=3(5 g-2)$
23. $12 k+7=20-3 k$
24. $8 y-3=6 y+17$
25. $9 g+15 \geq(5 g-9) 3$


