Chapter 1 Review odd #'s

1. solution of the equation

3. reciprocal

5. 5, 10, 15, 20, ...
   add 5; 25, 30, 35

7.

Input	Output
1	9
2	10
3	11
4	12
⋮	⋮
n	n+8

9. $ 20 n

11. Rational numbers
    Integers

13. Rational numbers

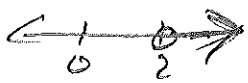
15. $5 < \sqrt{32}$

17. $(8 \cdot \frac{1}{3}) \cdot 12 = 8 \cdot (\frac{1}{3} \cdot 12)$
    Associative Property of M u N.

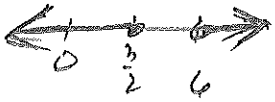
19. $-(3a - 2b) - 3(-a - b)$
    $-3a + 2b + 3a + 3b$
    $5b$

21. $3(x+1) = 9 + 2x$
    $3x + 3 = 9 + 2x$
    $x = 6$

23. $2(5 - 3x) < x - 4(3 - x)$
    $10 - 6x < x - 12 + 4x$
    $10 - 6x < 5x - 12$
    $22 < 11x$
    $2 < x$



25. $\frac{3}{2} \geq 2x$ or $x - 4 \geq 2$
    $\frac{3}{2} \geq x$ $x \geq 6$



27. $|2x+6| = 3x+7$
    $2x+6 = -(3x+7)$
    $2x+6 = -3x-7$
    $5x = -15$
    $x = -3$
    check $|-2| = -2$

    $2x+6 = 3x+7$
    $1 = x$

29. $3|x+10| = 6$

$|x+10| = 2$

$x+10 = -2$ $\quad$ $x+10 = 2$

$x = -12$ $\quad$ $x = -8$

31. $|3x-2|+4 \leq 7$

$|3x-2| \leq 3$

$-3 \leq 3x-2 \leq 3$

$-1 \leq 3x \leq 5$

$-\frac{1}{3} \leq x \leq \frac{5}{3}$

33. $|7x|+3 \leq 21$

$|7x| \leq 18$

$-18 \leq 7x \leq 18$

$-\frac{18}{7} \leq x \leq \frac{18}{7}$