Name _____

SOLVE for all values of x. Show all work and write your solution in interval notation.

1. $\dfrac{1}{x} > 3$

2. $\dfrac{1}{x-2} \le 5$

3. $\dfrac{2x-3}{x} < 5$

4. $\dfrac{6}{x+1} - \dfrac{2}{x} > 1$

5. $x - 6 \le \dfrac{-10}{x+1}$

(OVER)

6. $\dfrac{4}{x+2} - \dfrac{1}{x-1} > 0$

7. $\dfrac{3}{x+4} + \dfrac{12}{x-5} \leq -1$

8. In each of the following write an equivalent form without the absolute value symbol.

    a) $|-13|$
    b) $|2^{-1}|$
    c) $|8-2|$
    d) $|(-4-6)/2|$

    e) $\left|3\left(\dfrac{-5}{3}\right)\right|$
    f) $|2-7|-|7-2|$
    g) $|x|<3$
    h) $|x|<10$

    i) $|2-\sqrt{5}|$
    j) $|\sqrt{5}-2|$