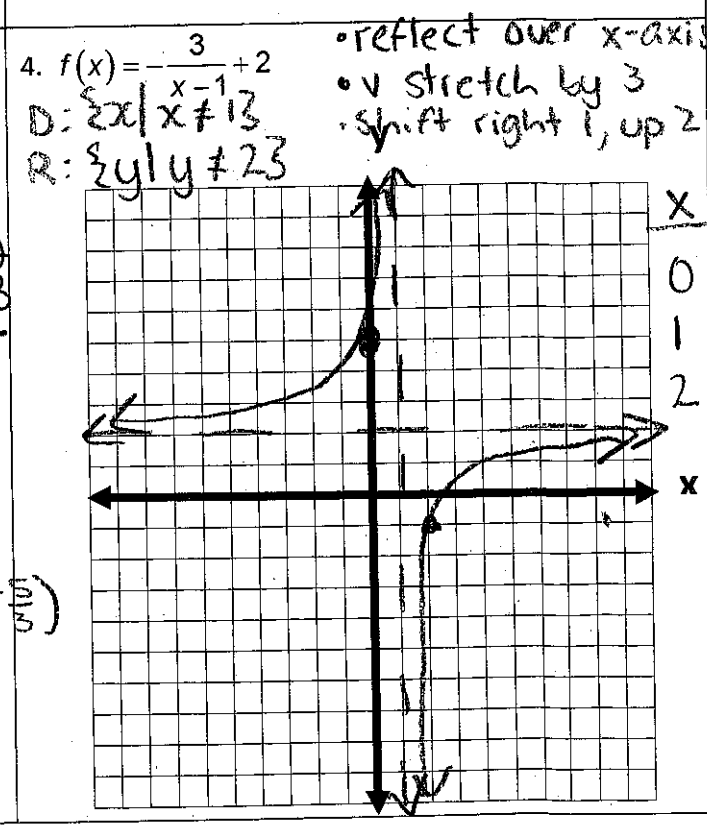
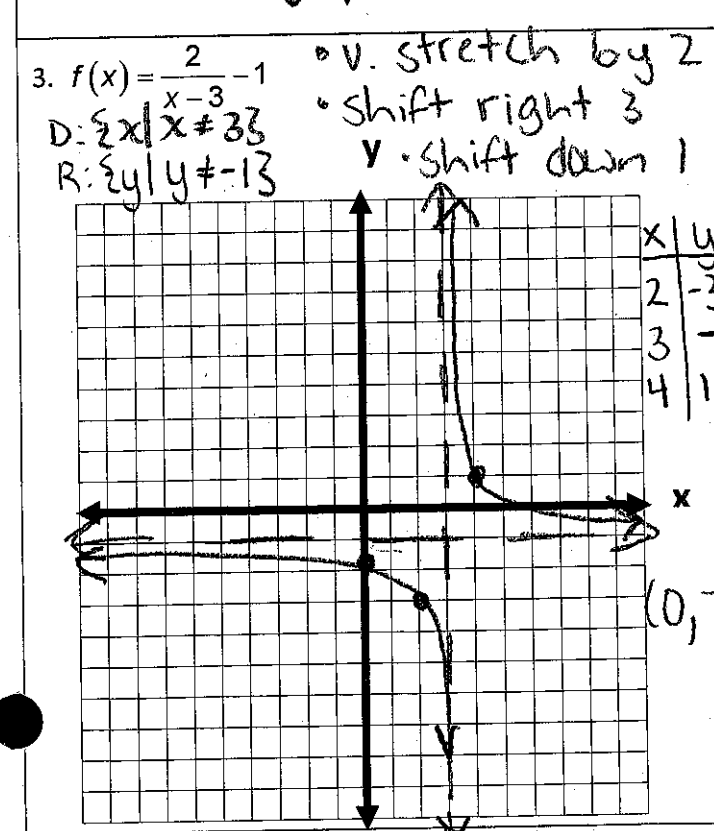
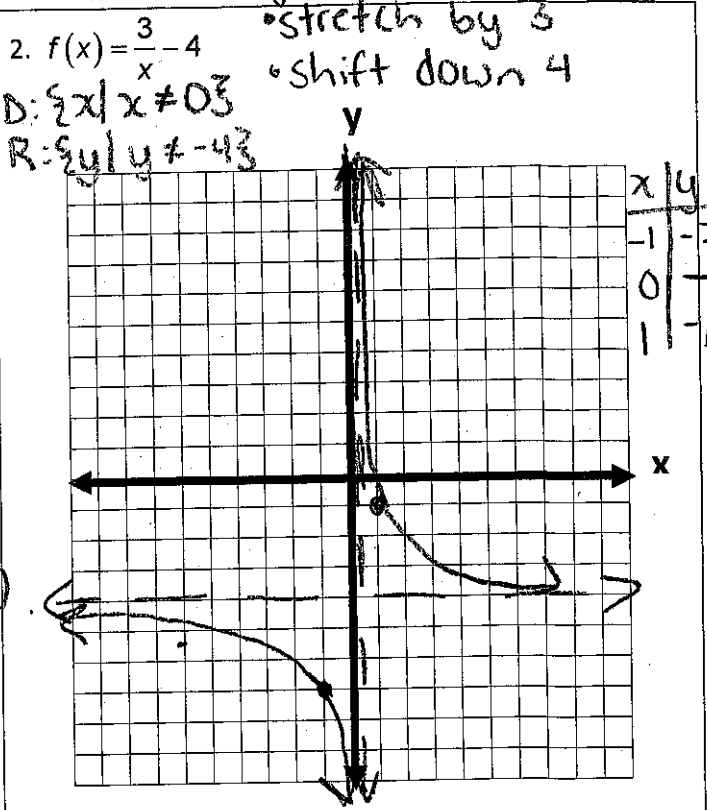
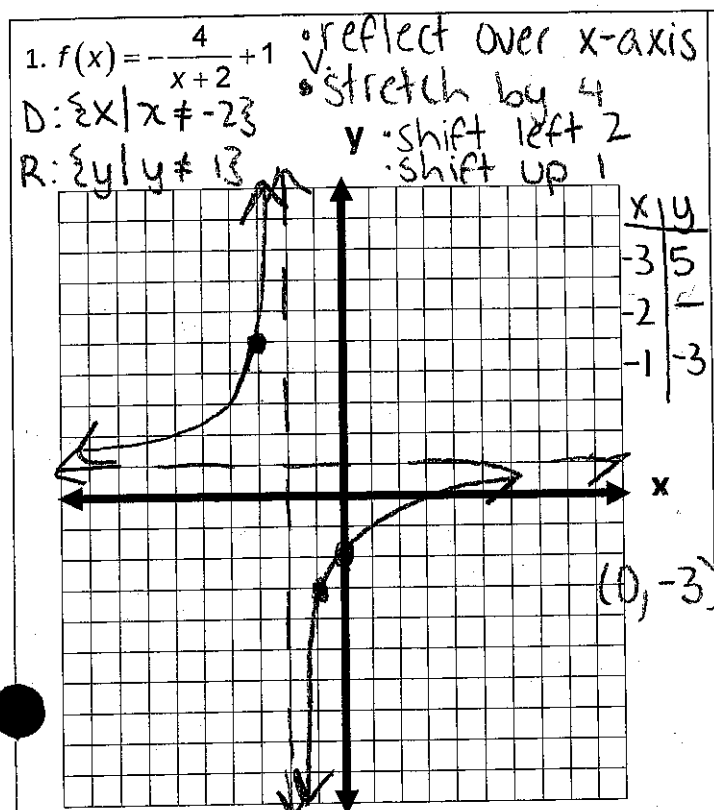
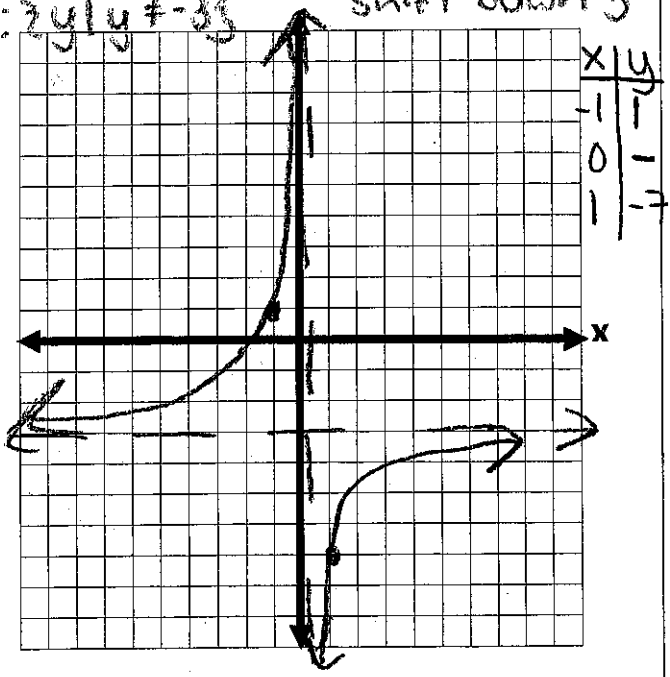


Graph each of the following transformation of the graph of $f(x) = \frac{1}{x}$. Identify the transformations, domain and range.



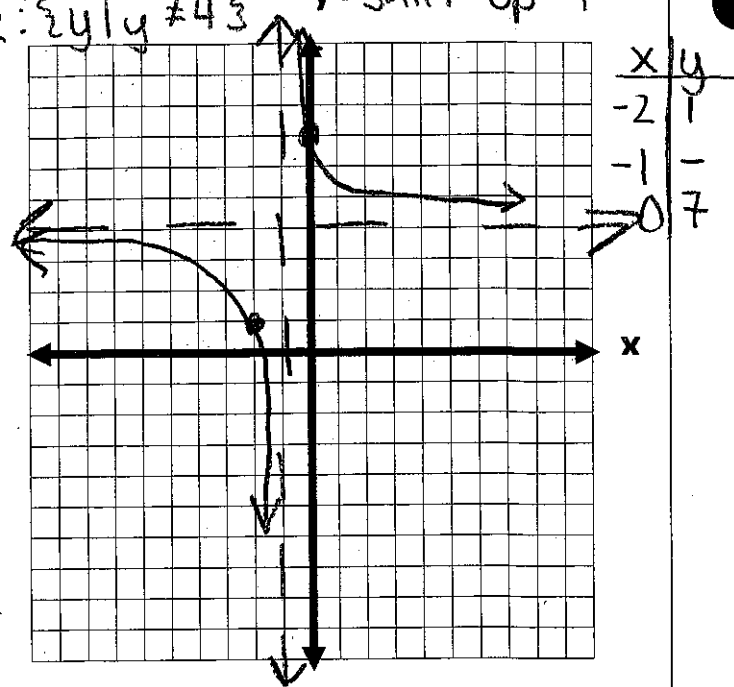
5. $f(x) = -\frac{4}{x-3}$
 D: $\{x | x \neq 3\}$
 R: $\{y | y \neq -3\}$

- reflect over x-axis
- V stretch by 4
- shift down 3



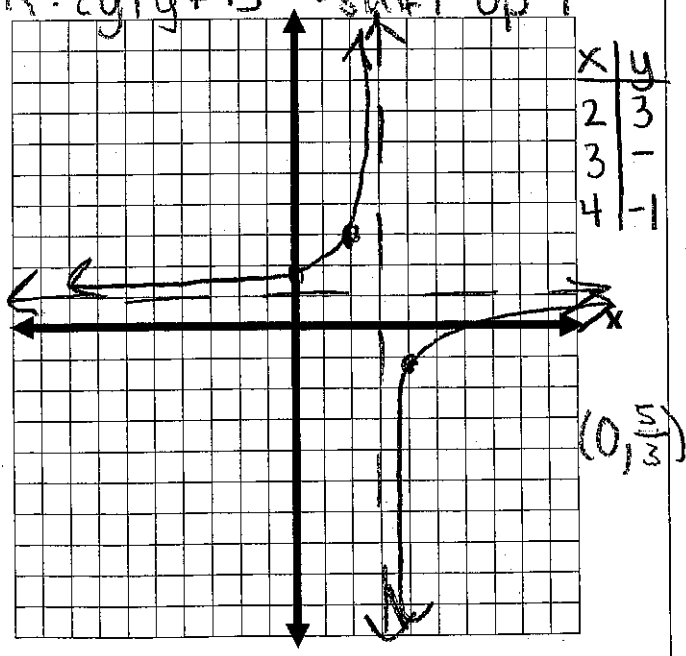
6. $f(x) = \frac{3}{x+1} + 4$
 D: $\{x | x \neq -1\}$
 R: $\{y | y \neq 4\}$

- stretch by 3
- shift left 1
- shift up 4



7. $f(x) = -\frac{2}{x-3} + 1$
 D: $\{x | x \neq 3\}$
 R: $\{y | y \neq 1\}$

- reflect over x-axis
- stretch by 2
- shift right 3
- shift up 1



8. $f(x) = \frac{1}{x-5} - 2$
 D: $\{x | x \neq 5\}$
 R: $\{y | y \neq -2\}$

- shift right 5
- shift down 2

