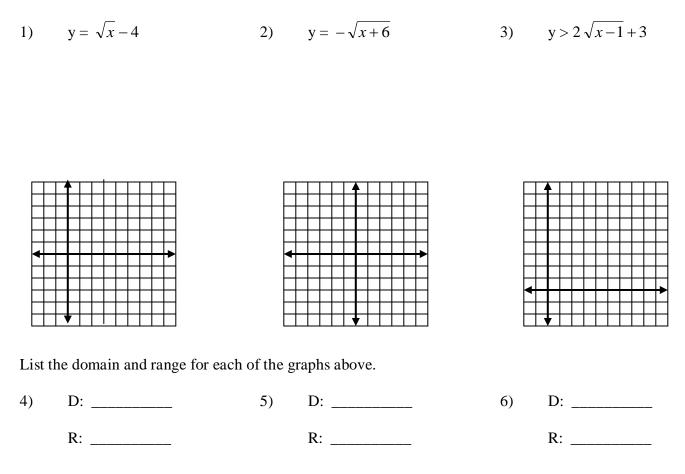
Algebra II Review Section 8-1 & 9-3 Name \_\_\_\_\_

Form A15

Graph each radical function on the graph provided. You must show an x/y-chart for each with a minimum of four points, but you may only use one decimal per problem.



Find the domain and range for the following functions. You do not need to graph them.

7)  $f(x) = \sqrt{3x-4}$  D: \_\_\_\_\_ 8)  $f(x) = 6 - 3\sqrt{2x+8}$  D: \_\_\_\_\_ R: \_\_\_\_\_ R: \_\_\_\_

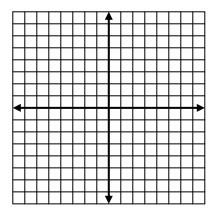
Find the vertical asymptotes and holes for each rational function. If one does not exist, leave it blank.

9) 
$$f(x) = \frac{x^2 + 6x}{x + 6}$$
 10)  $f(x) = \frac{10}{x^2 - 9x + 18}$  11)  $f(x) = \frac{2x + 1}{2x^2 - 7x - 4}$ 



Graph each rational function. Make sure to identify all asymptotes (both vertical and horizontal) with dashed lines. If an axis is also an asymptote, you do not need to show a dashed line.

12) 
$$y = \frac{-2}{x-1}$$
 13)  $f(x) = \frac{x^2 + 3x}{x+3}$ 



$$14) \qquad f(x) = \frac{4x}{x-2}$$

$$15) \qquad y = \frac{x}{x^2 + x - 6}$$

