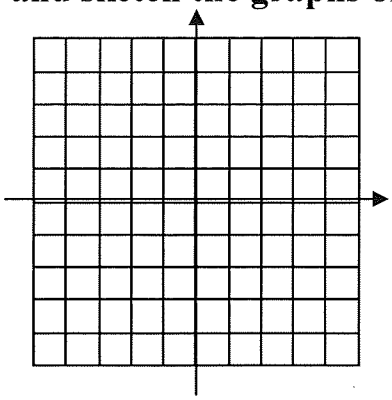
Practice 3.4: Radical Graphs

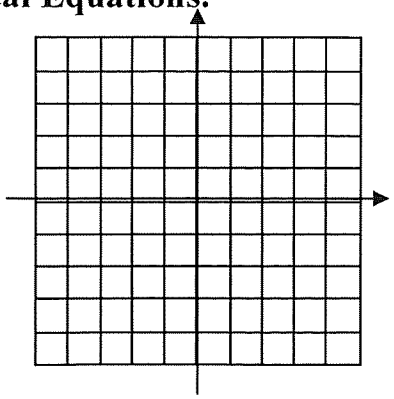
Name _____

Find the Domains and sketch the graphs of the following Radical Equations.

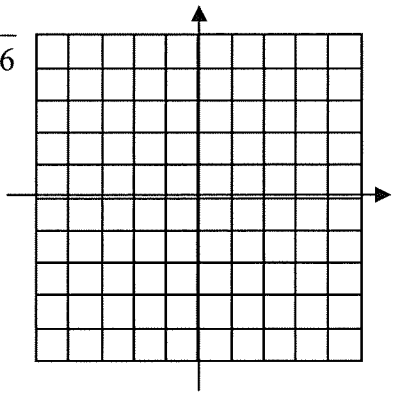
1. $f(x)=\sqrt{2x+6}$



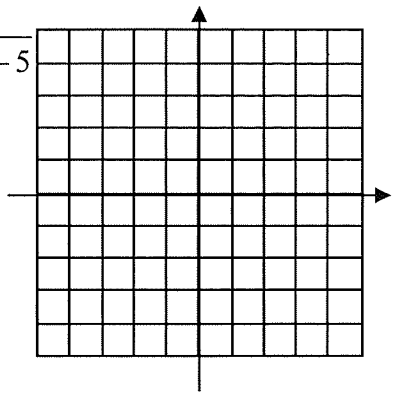
2. $f(x)=\sqrt{10-4x}$



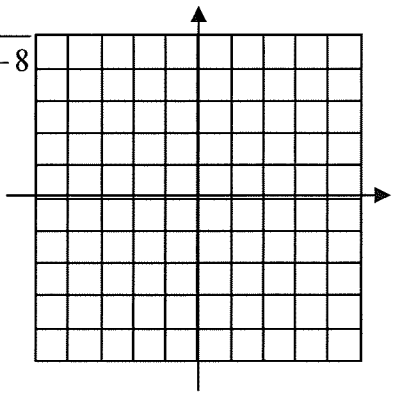
3. $f(x)=\sqrt{x^2+x-6}$



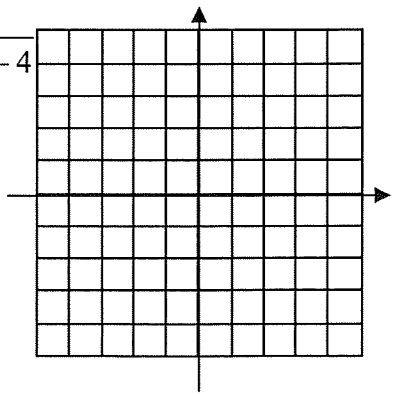
4. $f(x)=\sqrt{-x^2-6x-5}$



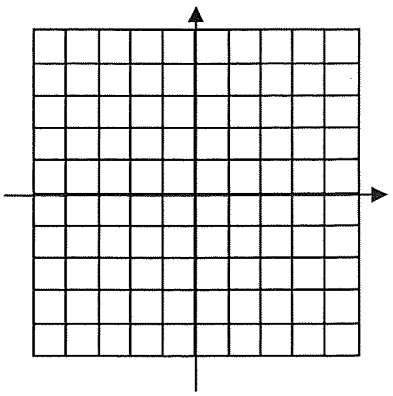
5. $f(x)=\sqrt[3]{x^2+2x-8}$



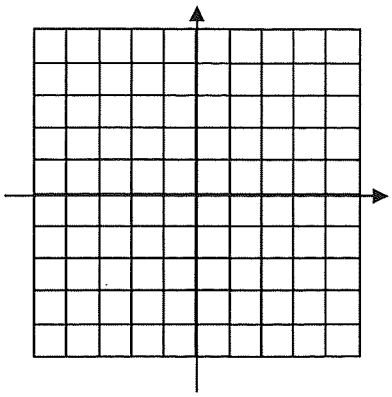
6. $f(x)=\sqrt[4]{-x^2-4x-4}$



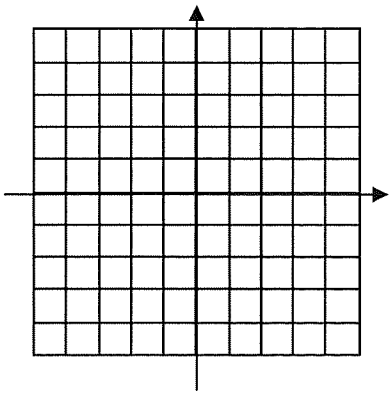
7. $f(x)=\sqrt{x^3-x^2-2x}$



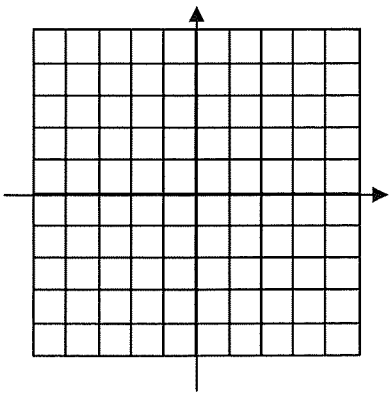
8. $f(x)=\sqrt{x^3+2x^2-11x-12}$



9. $f(x)=\sqrt{x^4-20x^2+64}$



10. $f(x)=\sqrt{-x^4+10x^2-9}$



Extra Credit

$f(x)=\sqrt{x^5+2x^4-13x^3-14x^2+24x}$