

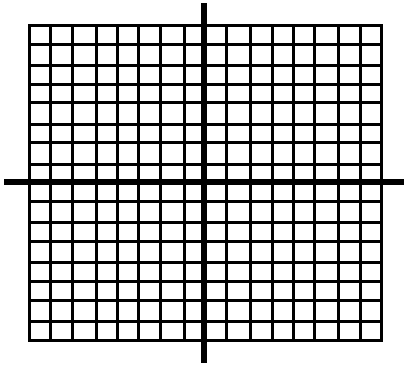
Name _____

Date _____ PD _____

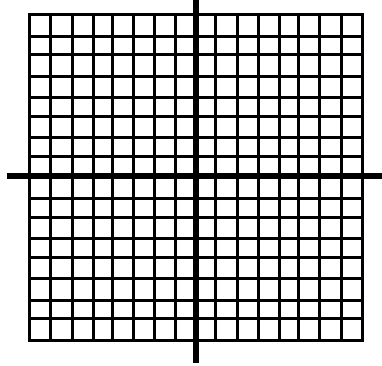
Graph each equation on a graphing tool like the CASIO, the TI-83, or the graphing calculator on the iBook. Then make a rough sketch of the graph on a coordinate plane.

OBJECTIVE: I want you to be able to automatically predict what the graph should look like simply by seeing its equation. You should know automatically how many curves it has, what it should look like, how many times it could cross the x-axis, the general direction of the graph, etc.

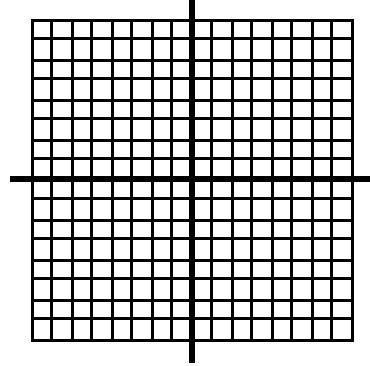
1. $f(x) = 4x$



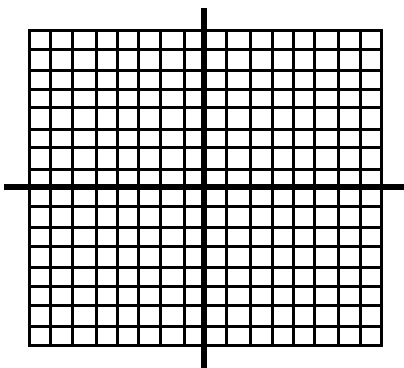
2. $f(x) = |x - 2|$



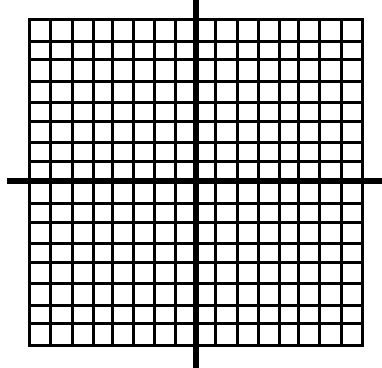
3. $f(x) = x^2 - 5x - 6$



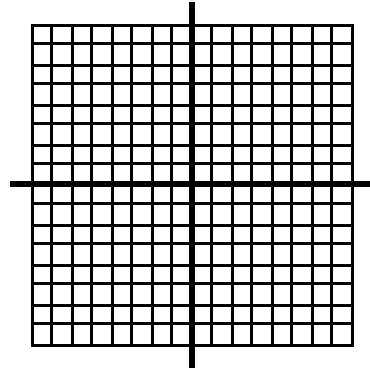
4. $f(x) = x^3$



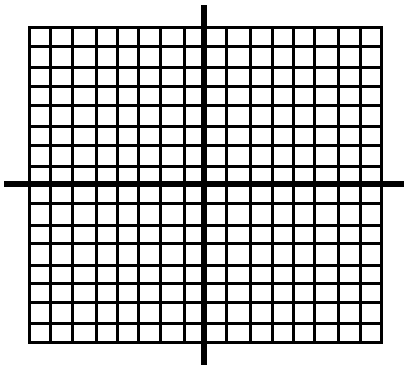
5. $f(x) = -2x^3$



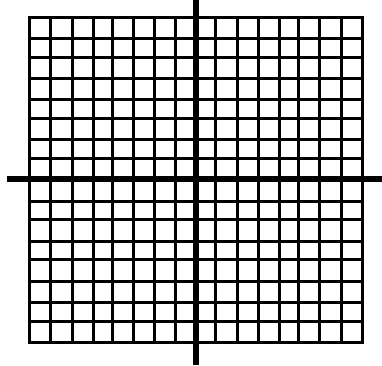
6. $f(x) = x^3 + 1$



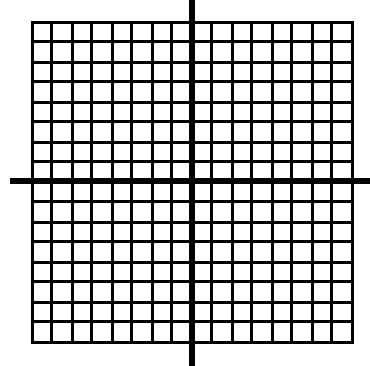
7. $f(x) = 2^x$



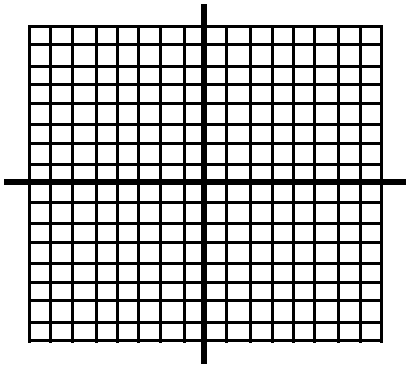
8. $f(x) = -2^x$



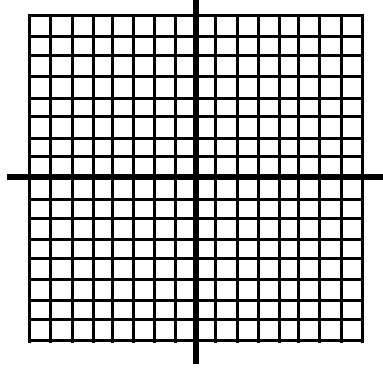
9. $f(x) = 3^x$



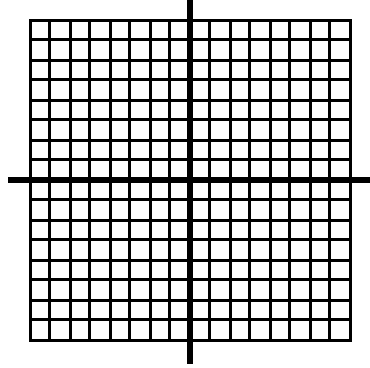
10 $f(x)=\sqrt{x}$



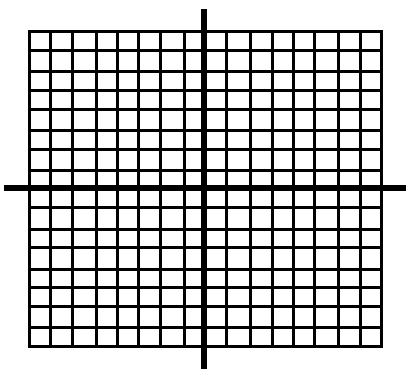
11 $f(x)=\sqrt[3]{x}$



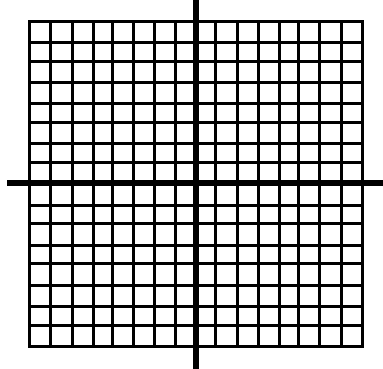
12 $f(x)=\sqrt{x-2}$



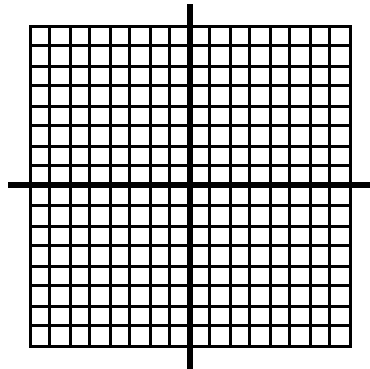
13 $f(x)=\frac{1}{x}$



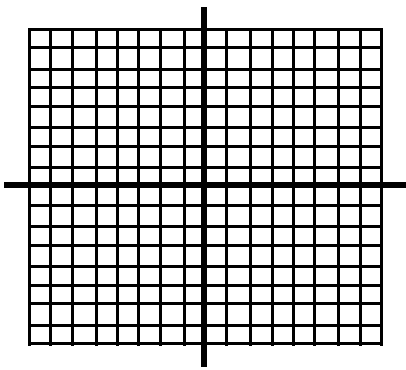
14 $f(x)=\frac{3}{x+1}$



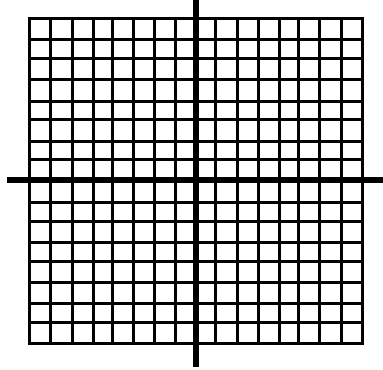
15 $f(x)=\frac{-2}{x+1}$



16 $f(x)=3x+1$



17 $f(x)=3x^2+1$



19 $f(x)=3x^3+1$

