

## Homework: Functions and Their Graphs

In Problems 1-4, find the domain of each function.

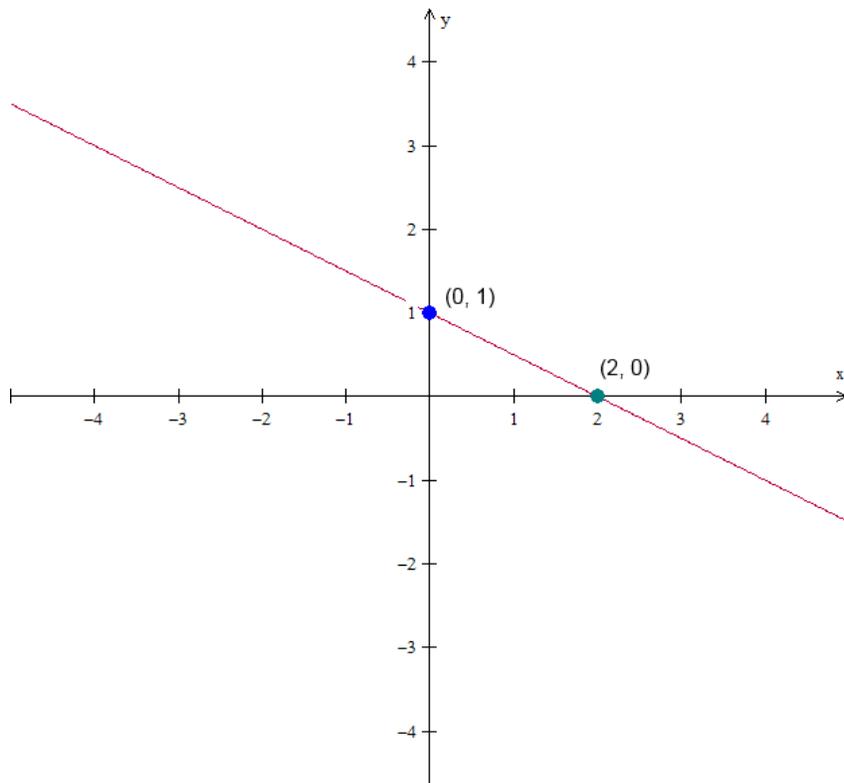
1. $f(x) = x^2 - 3$	2. $f(x) = \frac{9x+5}{7x-2}$
3. $f(x) = \frac{x+3}{3x+2}$	4. $f(x) =  x-3 $

In Problems 5-8, graph each function.

5. $f(x) = \frac{-3}{5}x + 1$	6. $f(x) =  x-4  + 2$
7. $f(x) = -x^2 + 3$	8. $f(x) = x^3 - 4$

In Problems 9-13, for each graph of a function, find (a) the domain and range, (b) the intercepts, if any, and (c) the zeros, if any.

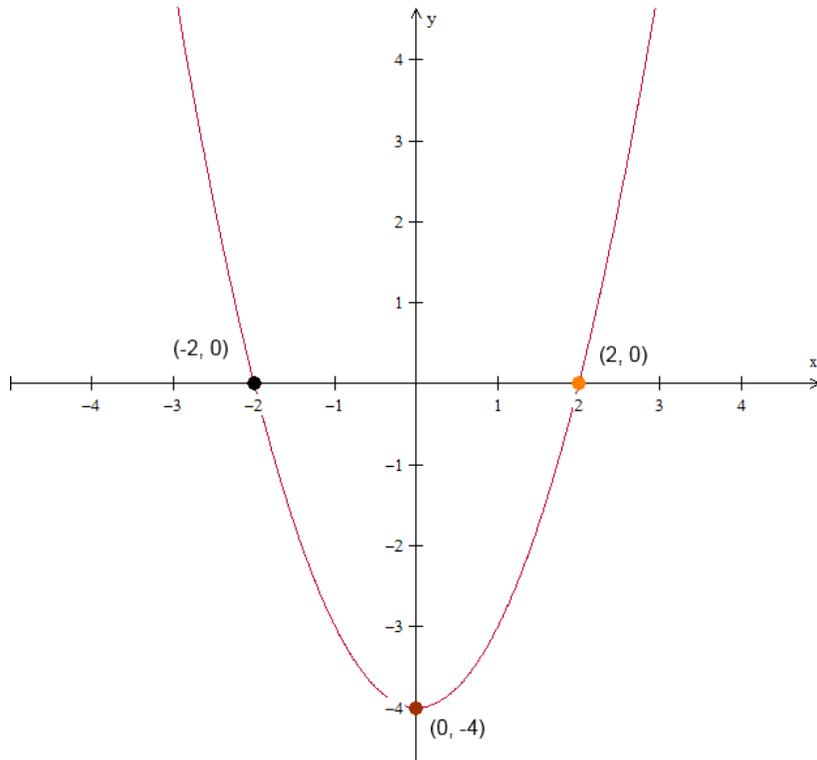
9.



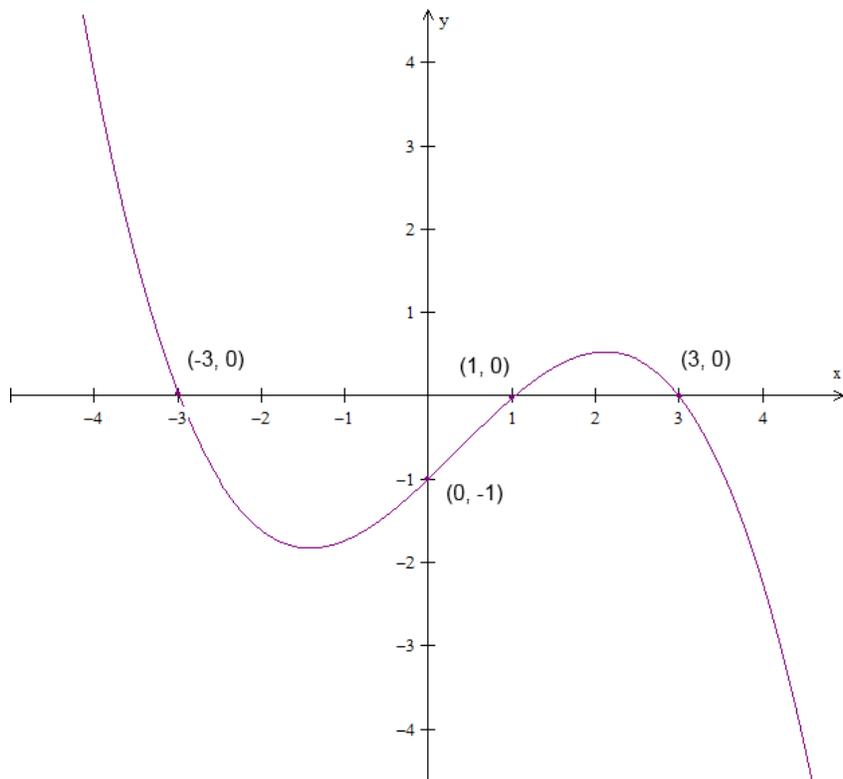
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10.



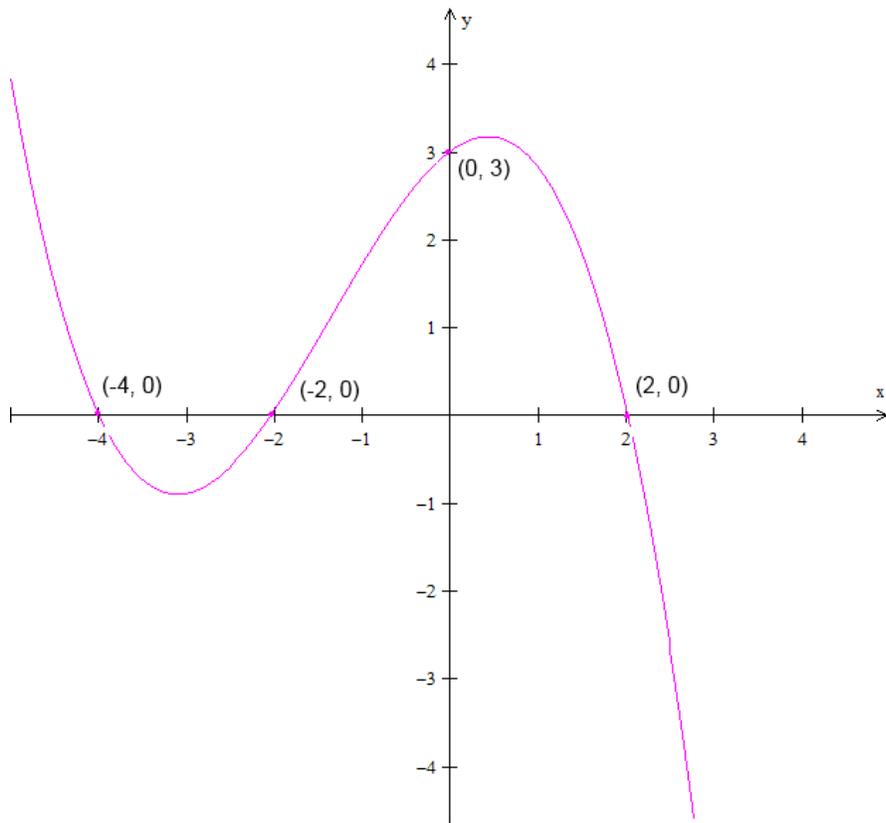
11.



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12.



13.

