$\qquad$ Date $\qquad$ Class $\qquad$

## Skills Readiness

## 80 Graph Functions

To graph a function, follow these steps:
Step 1: Make a table of values. If the domain is given, use those $x$-values. If a domain is not given, choose several values such as $-2,-1,0,1$, and 2 .
Step 2: Plot the ordered pairs.
Step 3: If a specific domain is not given, draw a line or curve through the points.
Example: Graph $y=x^{2}-3$ for the domain, $\mathrm{D}:\{-2,-1,0,1,2\}$.
Note: Since a specific domain is given, do not draw a line through the points.


Practice on Your Own

## Graph each function for the given domain.

1. $y=-\frac{1}{2} x+3$
D: $\{-4,-2,0,2,4\}$
2. $y=x^{2}-2$
D: $\{-2,-1,0,1,2\}$
3. $y=(x+1)^{2}$
D: $\{-3,-2,-1,0,1\}$




## Graph each function.

4. $y=x^{2}-5$

5. $y=2 x-3$

6. $y=(x-2)^{2}$


## Check

Graph each function. If the domain is given, graph the function for only that domain.
7. $y=\frac{2}{3} x+1$
8. $y=x^{2}+1$
9. $y=(x+2)^{2}$

D: $\{-6,-3,0,3,6\}$



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