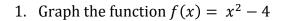
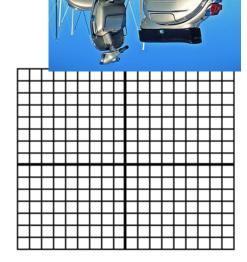
4.4 Reflections of a Bike Lover

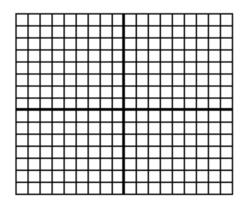
A Practice Understanding Task



- 2. Graph g(x) = |f(x)| on the same set of axes as f(x).
- 3. Explain what happens graphically.
- 4. Write the piecewise function for g(x).



- 5. Explain your process for creating this piecewise function.
- 6. Graph the function $f(x) = (x + 1)^2 9$
- 7. Graph g(x) = |f(x)|.
- 8. Explain what happens graphically?
- 9. Write the piece-wise function for g(x).

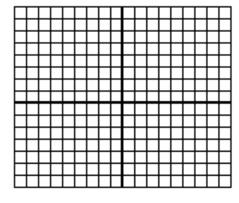


10. What do you have to think about when writing any absolute value piece-wise function?

Graph the following absolute value functions and write the corresponding piecewise functions for each.

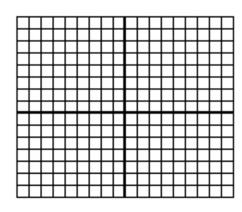
$$11. g(x) = |x^2 - 4| + 1$$

Piecewise:



$$12. g(x) = |(x+2)^2 - 4| + 3$$

Piecewise:



13.
$$g(x) = |(x-3)^2 - 1| - 2$$

Piecewise:

