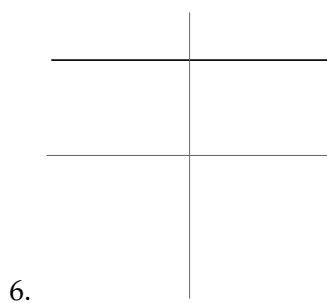
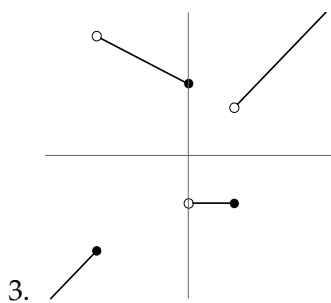
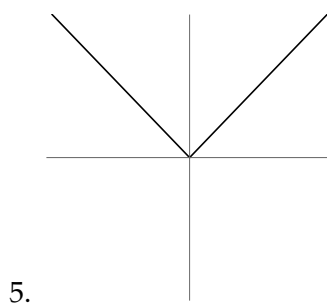
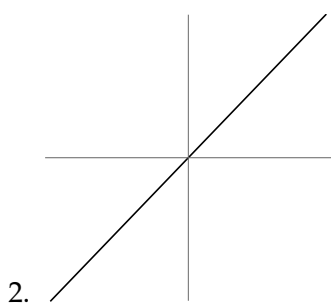
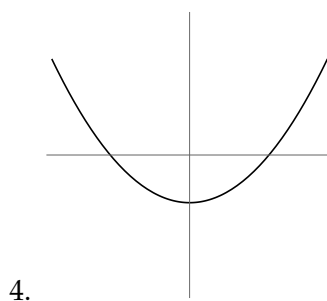
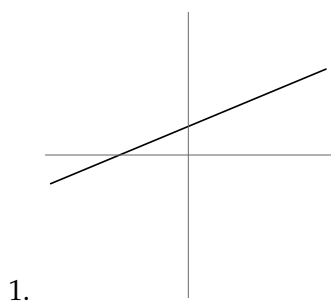
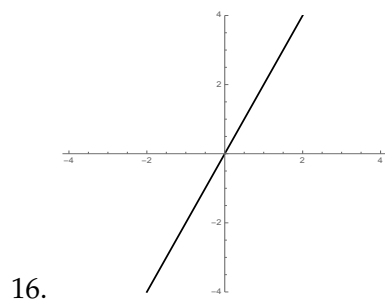
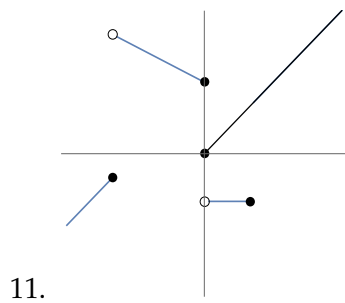
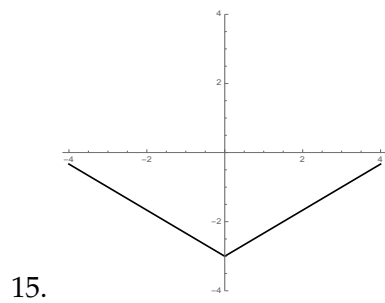
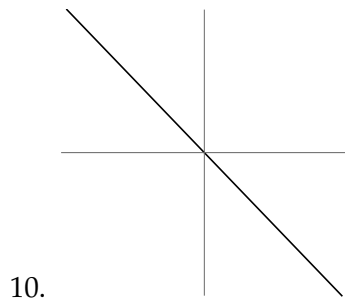
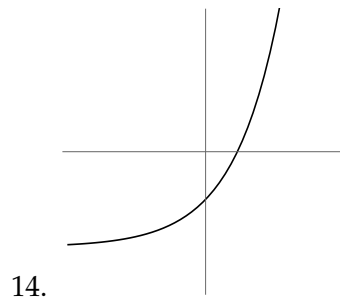
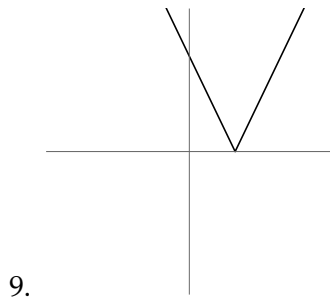
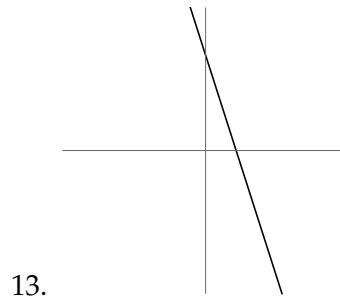
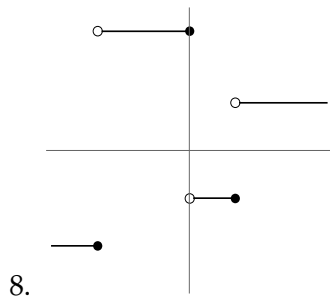
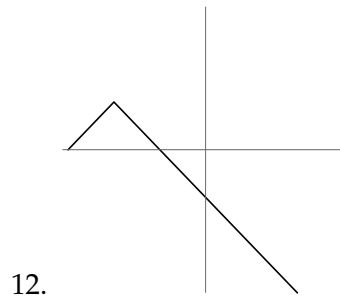
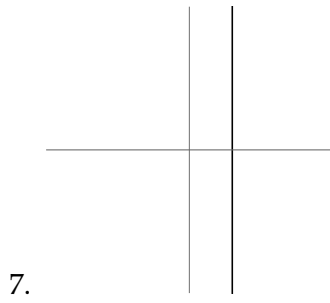


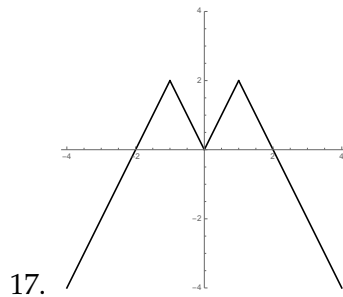
In each problem below, you are given a graph. For that graph, decide which of the following phrases most accurately describes that graph:

- A constant function
- The identity function
- A linear function
- The absolute value function
- An absolute value function
- A piecewise-constant function
- A piecewise-linear function
- A function, but none of the above
- Not a function

Then, decide if the function has any symmetry (even, odd, symmetric about a line  $x = c$ ).





**Answers**

1. Linear function; no symmetry
2. The identity function; odd
3. Piecewise-linear function; no symmetry
4. A function, but none of the above; even
5. The absolute value function; even
6. Constant function; even
7. Not a function
8. Piecewise-constant function; no symmetry
9. An absolute value function; symmetric about  $x = 1$  (1 is just an estimate here)
10. Linear function; odd
11. Not a function
12. An absolute value function; symmetric about  $x = -3$  ( $-3$  is just an estimate here)
13. Linear function; no symmetry
14. A function, but none of the above; no symmetry
15. An absolute value function; even
16. Linear function; odd
17. A function, but none of the above; even