

Homework

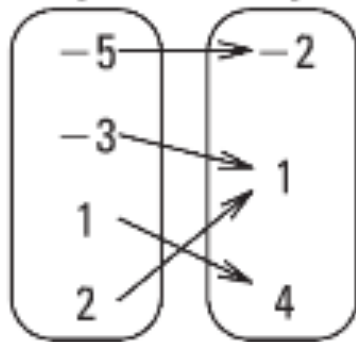
p. 77: 11-12, 18-19, 22-23

p. 86: 11-13, 21-22, 39

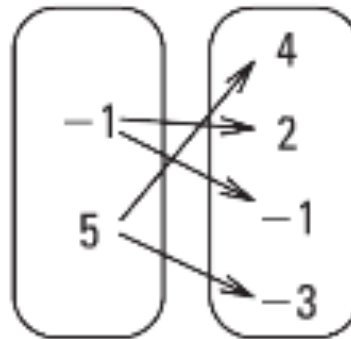
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IDENTIFYING FUNCTIONS Tell whether the relation is a function. *Explain.*

11. Input Output



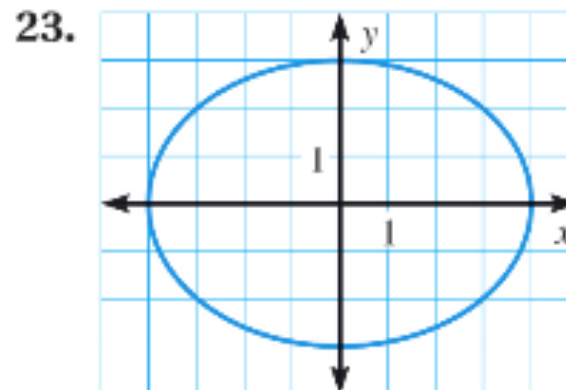
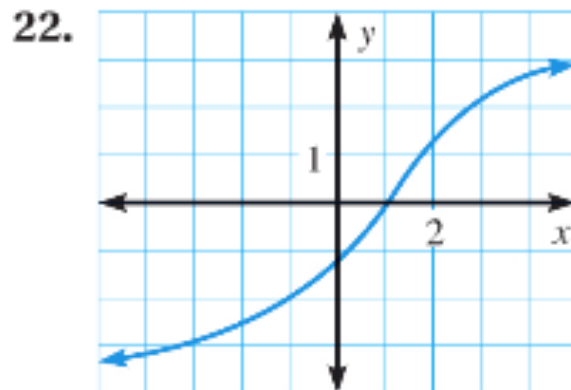
12. Input Output



18. $(0, 1), (1, 0), (2, 3), (3, 2), (4, 4)$

19. $(-1, -1), (2, 5), (4, 8), (-5, -9), (-1, -5)$

VERTICAL LINE TEST Use the vertical line test to tell whether the relation is a function.



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FINDING SLOPE Find the slope of the line passing through the given points. Then tell whether the line *rises, falls, is horizontal, or is vertical*.

11. $(4, 4), (4, 9)$ 12. $(5, 5), (7, 3)$ 13. $(0, -3), (4, -3)$

CLASSIFYING LINES Tell whether the lines are *parallel, perpendicular, or neither*.

21. Line 1: through $(5, 8)$ and $(7, 2)$
Line 2: through $(-7, -2)$ and $(-4, -1)$
22. Line 1: through $(-3, 2)$ and $(5, 0)$
Line 2: through $(-1, -4)$ and $(3, -3)$

CHALLENGE Find the value of k so that the line through the given points has the given slope. Check your solution.

39. $(-4, 2k)$ and $(k, -5)$; $m = -1$