Nine Function Diagrams

a. $x \longrightarrow y$

b. $x \longrightarrow y$

c. $x \longrightarrow y$

d. $x \longrightarrow y$

e. $x \longrightarrow y$

f. $x \longrightarrow y$
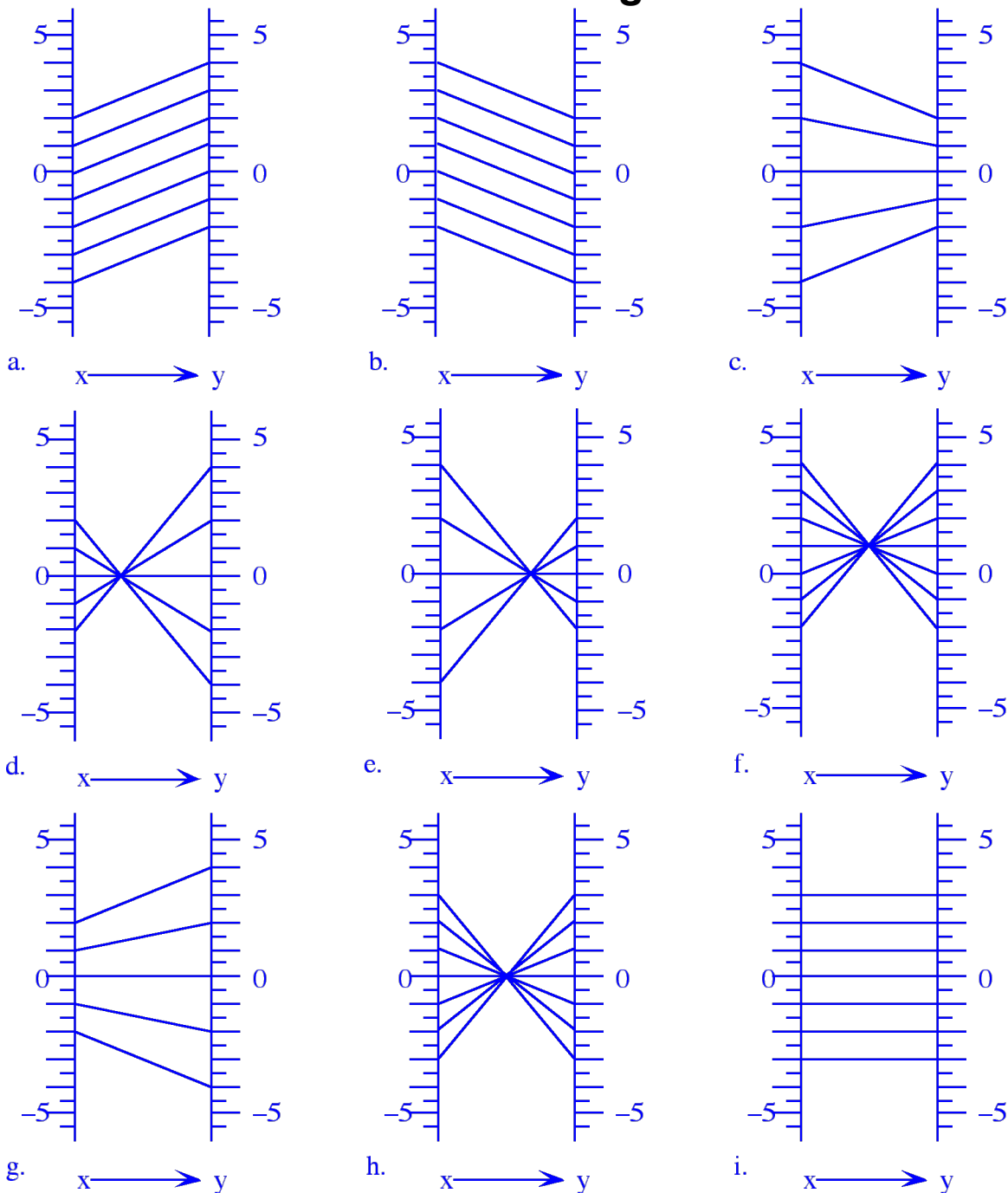
g. $x \longrightarrow y$

h. $x \longrightarrow y$

i. $x \longrightarrow y$

1. Three diagrams represent functions of the form $y = x + b$. Which ones? What is b?
2. Three diagrams represent functions of the form $y = x - b$. Which ones? What is b?
3. Six diagrams represent functions of the form $y = mx$. Which ones? What is m?
4. Six diagrams represent functions of the form $y = x/m$. Which ones? What is m?
5. A function diagram has parallel in-out lines. Write as much as you can about the function.
6. If the in-out lines are parallel, in what case do they go up? Down? Straight across?
7. A diagram for $y = mx$ has in-out lines that move closer to each other. What can you say about m?
8. A diagram for $y = mx$ has in-out lines that move apart from each other. What can you say about m?
9. A function diagram for $y = mx$ has in-out lines that cross each other. What can you say about m?
10. Two diagrams above represent functions of the form $y = b - x$. Which ones? What are the functions?

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