

Teaching notes

Use these cards as a matching activity to revise graph transformations.

- Cut out the first card, $y = f(x)$, as one whole card for students to use as a 'key'.
- Cut out all other cards along the dotted line.
- Students must match the graphs with their equations by comparing with $y = f(x)$.

Answers:

Reference: $y = f(x)$

Card A: $y = f(x - 2)$

Card B: $y = f(x) + 2$

Card C: $y = \frac{1}{2} f(x)$

Card D: $y = -f(x)$

Card E: $y = 2f(x)$

Card F: $y = f(x) - 2$

Card G: $y = f(2x)$

Card H: $y = f(x + 2)$

Card I: $y = f\left(\frac{1}{2}x\right)$

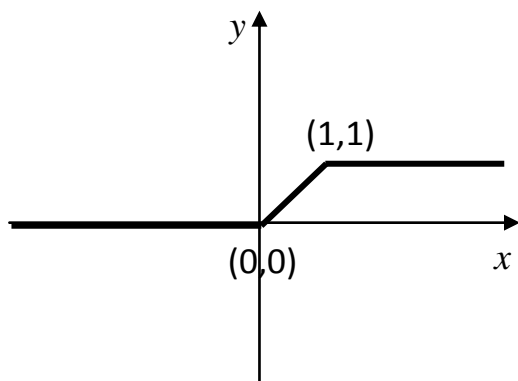
Card J: $y = f(x - 2) + 2$

Card K: $y = 2 - f(x)$

Card L: $y = f(-x)$

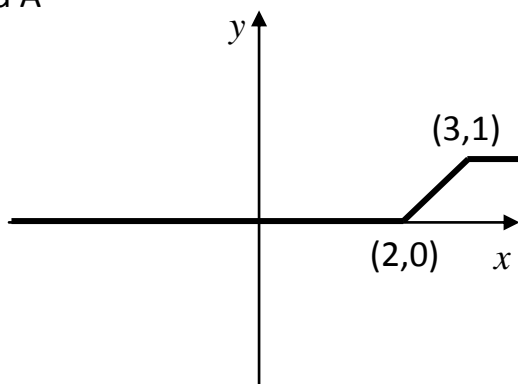
Card M: $y = 1 + f(x + 3)$

Card N: $y = 3f(x) - 1$



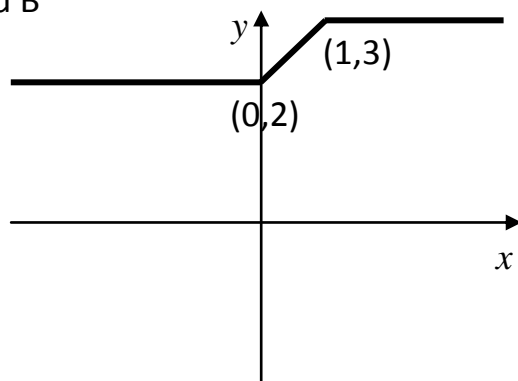
$$y = f(x)$$

Card A



$$y = 3f(x) - 1$$

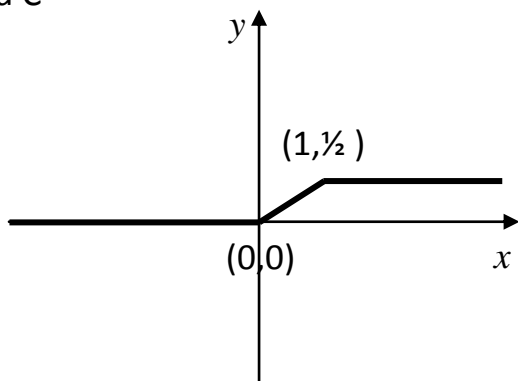
Card B



$$y = 2 - f(x)$$

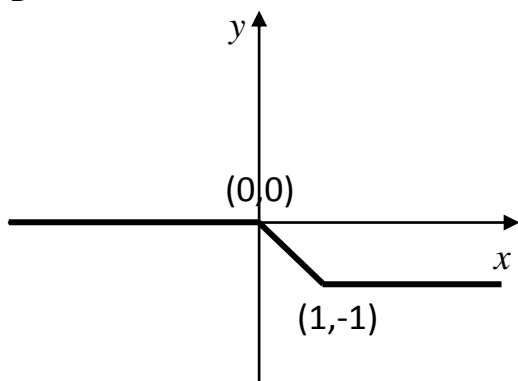


Card C



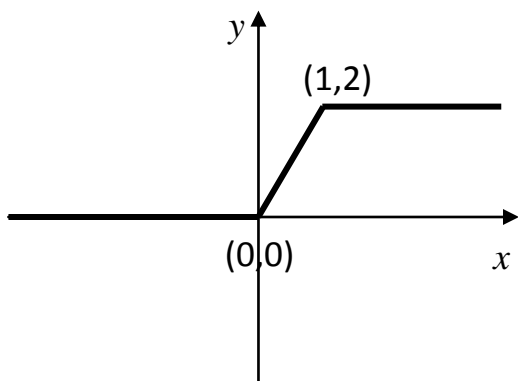
$$y = f(x) - 2$$

Card D



$$y = -f(x)$$

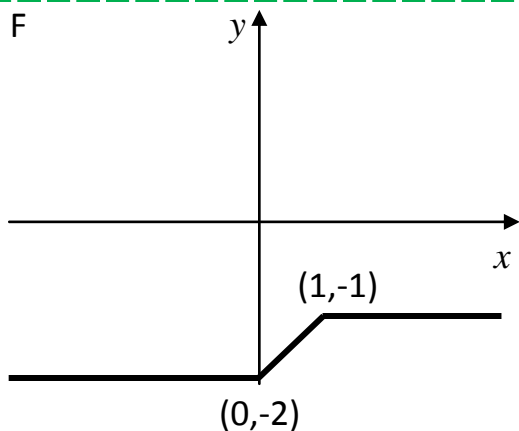
Card E



$$y = f(2x)$$

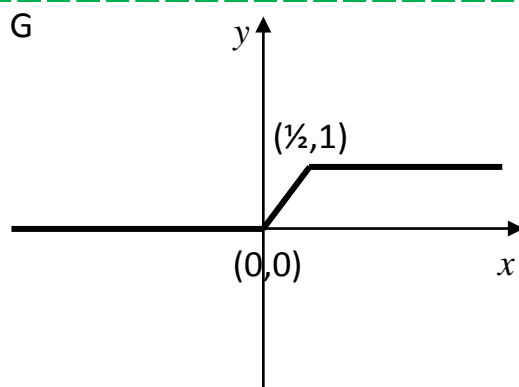


Card F



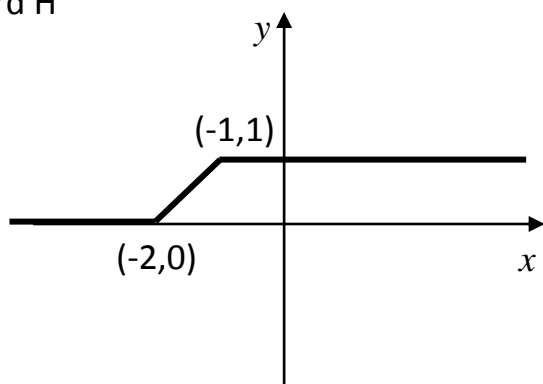
$$y = \frac{1}{2}f(x)$$

Card G



$$y = 2f(x)$$

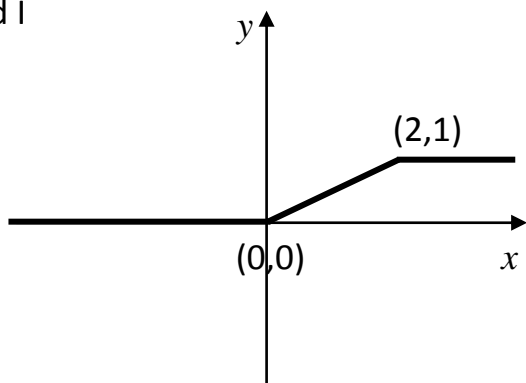
Card H



$$y = f(x - 2) + 2$$

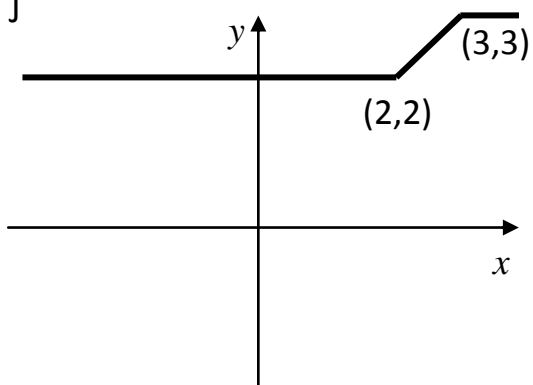


Card I



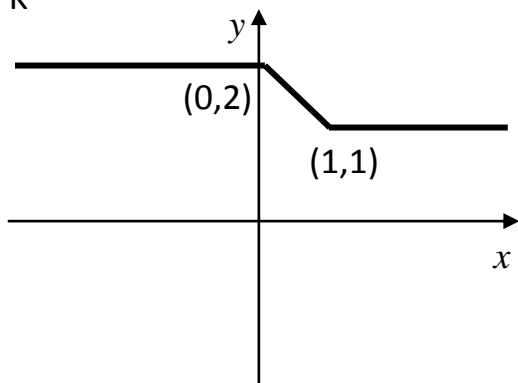
$$y = f(-x)$$

Card J



$$y = f(x + 2)$$

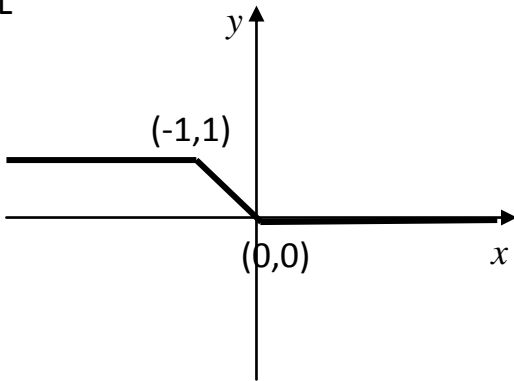
Card K



$$y = f(x) + 2$$

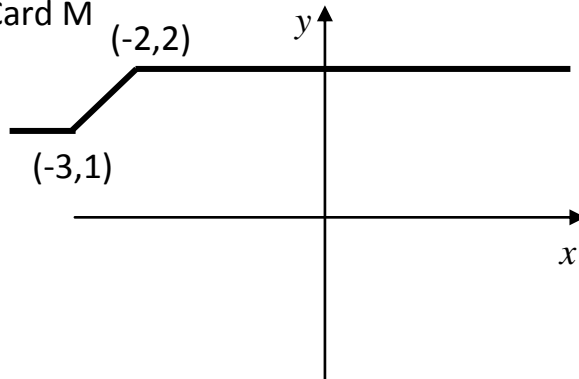


Card L



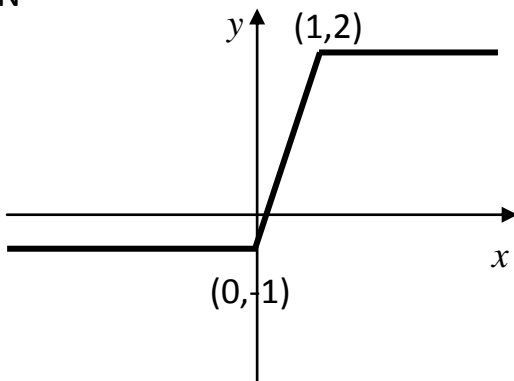
$$y = f\left(\frac{1}{2}x\right)$$

Card M



$$y = 1 + f(x + 3)$$

Card N



$$y = f(x - 2)$$

