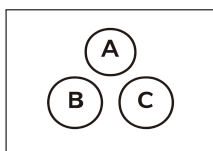


17 Functions and Graphs

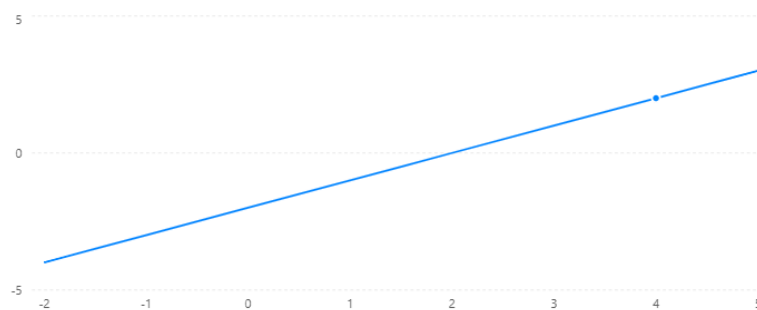
Line/Linear Functions

C



Graph of $y = x - 2$

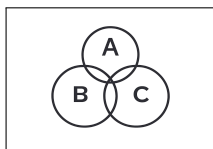
Linear function with slope 1 and y-intercept -2.



$$m = 1$$

$$P_1 = (3, 1)$$

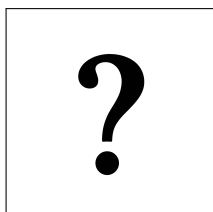
$$y = 1 + 1 \times (x - 3) = x - 2$$



$$m = 1$$

$$P_1 = (x_1, y_1)$$

$$y = y_1 + m \times (x - x_1)$$



$$m = 2$$

$$P_1 = (2, 4)$$

$$y = ?$$

17 Functions and Graphs

Line/Linear Functions

C



Graph of $y = 2x$

Linear function with slope 2 passing through the origin and the point (2,4).



$$m = 2$$

$$P_1 = (2, 4)$$

$$y = 1 + 1 \times (x - 3) = x - 2$$