Name _____

07-02-08-T8A

Rate of Change

■ **A. Find the rate of change, $\frac{\Delta y}{\Delta x}$, in y with respect to x. You should be able to do this mentally and just write down the answer.**

[1] $y = 2x + 3$

[2] $y = 5x - 8$

[3] $y = -3x - 8237$

[4] $y = -\frac{3}{5}x + 1$

[5] $y = \frac{2}{3}x$

[6] $2x + 3y = \frac{7299}{131}$

[7] $5x - 3y - 8 = 0$

[8] $-2x + 7y = 0$

[9] $\frac{2}{3}x + 3y = 2$

[10] $\frac{2}{5}x - \frac{3}{5}y = 1309$

[11] $231x + 537y = 2$

[12] $2x - 7 = -5y + \frac{13}{21}$

Answers

[1] $\frac{\Delta y}{\Delta x} = 2$

[2] $\frac{\Delta y}{\Delta x} = 5$

[3] $\frac{\Delta y}{\Delta x} = -3$

[4] $\frac{\Delta y}{\Delta x} = \frac{-3}{5}$

[5] $\frac{\Delta y}{\Delta x} = \frac{2}{3}$

[6] $\frac{\Delta y}{\Delta x} = -\frac{2}{3}$

[7] $\frac{\Delta y}{\Delta x} = \frac{5}{3}$

[8] $\frac{\Delta y}{\Delta x} = -\frac{2}{7}$

[9] $\frac{\Delta y}{\Delta x} = -\frac{2}{9}$

[10] $\frac{\Delta y}{\Delta x} = \frac{2}{3}$

[11] $\frac{\Delta y}{\Delta x} = -\frac{231}{537}$

[12] $\frac{\Delta y}{\Delta x} = -\frac{2}{5}$