

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Change in Vertical coordinate}}{\text{Change in horizontal coordinate}}$$

$$\text{Slope} = \frac{(y_2 - y_1)}{(x_2 - x_1)}$$

Find the slope of the line connecting each of the following ordered pairs:

1. (3,7) & (7,9)
2. (2,-1) & (-4, 2)
3. (6, -7) & (2,5)
4. (0, -3) & (-5, -1)
5. (-3, 6) & (2, 6)
6. (-2, 7) & (-2, -2)

For each of the following, identify two ordered pairs, then calculate the average rate of change:

1. Gina's weight five years ago was 135 lbs. Now it is 143 lbs.
2. U. S. general imports totaled \$581 trillion in 1983. In 1997 the figure was \$871 trillion.
3. 3. Median Household Income for the U.S was \$34,261 in 1992. In 1996 it was \$35,492.
4. The number of undergraduate applicants for admission to UMass Boston was 5,200 in 1995. In 2004 that figure was 6,920.