

Name: _____

Slope

Exercise 1: Determine the slope of each line passing through the given pair of points

1) $A(4,2);B(1,3)$

2) $A(0,2);B(1,0)$

3) $A(5,-1);B(5,-6)$

4) $A(6,11);B(6,-7)$

5) $A(4,-2);B(1,-2)$

6) $A(0,3);B(0,-3)$

7) $A(5,-3);B(4,-3)$

8) $A(4,0);B(1,0)$

9) $A(7,2);B(7,-4)$

10) $A(1,3);B(2,6)$

11) $A(m,2n);B(3m,2n)$

12) $A(p,q);B(-p,-q)$

13) $A\left(\frac{1}{2},\frac{1}{3}\right);B\left(\frac{1}{2},\frac{2}{3}\right)$

14) $A\left(\frac{1}{5},\frac{3}{4}\right);B\left(\frac{3}{5},\frac{1}{4}\right)$

Exercise 2: Find the slope of a line that passes through $(-8, 9)$ and $(0, 6)$.**Exercise 3:** What is the slope of a line that passes through $A(-8, 2)$ and $B(5, 8)$?**Exercise 4:** Some roads in the Rocky Mountains have a rise of 7 feet for every 100 horizontal feet. What is the slope of such roads?**Exercise 5:** Find the value of a such that the line passing through $A(a,9)$ and $B(2,3)$ is vertical**Exercise 6:** Find the value of b such that the line passing through $A(2,b)$ and $B(4,5)$ is horizontal