

Name: _____

Writing Equations in Slope – Intercept Form

Exercise 1: Write an equation in slope-intercept form of the line passing through each pair of points.

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

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

3) $A(4,-2);B(6,3)$

4) $A(-6,-1);B(6,-7)$

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

6) $A(0,7);B(0,-7)$

7) $A(-7,-3);B(-2,3)$

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

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

10) $A(5,9);B(2,6)$

11) $A(4m,-2n);B(m,-n)$

12) $A(p,q);B(3p,-2q)$

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: Write an equation in slope-intercept form of a line with slope $\frac{2}{3}$ and y-intercept the same as the line whose equation is $y = 4x + 7$.

Exercise 3: Write an equation in slope-intercept form of a line with slope -4 and y-intercept the same as the line whose equation is $y - 3x - 9 = 0$.

Exercise 4: Write an equation in slope-intercept form of a line with a y-intercept of 11 and slope the same as the line whose equation is $y = 7 - 9x$.

Exercise 5: Write an equation in slope-intercept form of a line with a y-intercept of 5 and slope the same as the line whose equation is $4y - 2x = 12$.