

6. [16] Find the slope of the line that passes through each pair of points. Remember to simplify your answer in lowest terms!

a) A (3, 2) and B (5, 1) $m_{AB} =$

b) M (-4, 7) and N (-6, 4) $m_{MN} =$

c) X (-3, -8) and Y (5, -8) $m_{XY} =$

7. Solve for x .

a) $2(x-1)+5=-11+3x$

b) $3x-1=4x+1$

c) $9x+5=\frac{x+1}{3}$

d) $2x+3(5x-1)=7x+33$

8. Expand and simplify each expression.

a) $(2x-1)(x+3)$

b) $-3(x+4)^2$

c) $(x-5)^2-2(3x+1)$

d) $(x+3)^2-7(5x-5)$