

Unit 4 - Day 7 homework

Pg. 185 #3-8 all, Pg. 186 #32

In Exercises 3–10, write an equation in point-slope form of the line that passes through the given point and has the given slope. (See Example 1.)

3. $(2, 1); m = 2$

4. $(3, 5); m = -1$

5. $(7, -4); m = -6$

6. $(-8, -2); m = 5$

7. $(9, 0); m = -3$

8. $(0, 2); m = 4$

32. **ERROR ANALYSIS** Describe and correct the error in writing an equation of the line that passes through the points $(1, 2)$ and $(4, 3)$.



$$m = \frac{3 - 2}{4 - 1} = \frac{1}{3} \quad y - 2 = \frac{1}{3}(x - 4)$$