Lesson 5.4 Practice: Point-Slope Form

School Launch · Algebra I · Unit 5: Linear Functions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Write the equation of the line through $(-2, -1)$ with slope 1 in point-slope form, then in slope-intercept form. EASY

2. Write the equation of the line through $(1, 2)$ with slope $\frac{4}{3}$ in point-slope form, then in slope-intercept form. EASY

3. Write the equation of the line through $(6, 6)$ with slope 1 in point-slope form, then in slope-intercept form. EASY

4. Write the equation of the line through $(-4, 3)$ with slope 1 in point-slope form, then in slope-intercept form. MEDIUM

5. Write the equation of the line through $(4, -1)$ with slope $\frac{1}{3}$ in point-slope form, then in slope-intercept form. MEDIUM

6. Write the equation of the line through $(4, 2)$ with slope $\frac{2}{3}$ in point-slope form, then in slope-intercept form. MEDIUM

7. Write the equation of the line through $(2, -3)$ with slope -1 in point-slope form, then in slope-intercept form. MEDIUM

8. Write the equation of the line through $(1, -6)$ with slope $\frac{1}{3}$ in point-slope form, then in slope-intercept form. HARD

9. Write the equation of the line through $(-1, -2)$ with slope $-\frac{2}{3}$ in point-slope form, then in slope-intercept form. HARD

10. Write the equation of the line through $(-1, 3)$ with slope $\frac{3}{2}$ in point-slope form, then in slope-intercept form. HARD