ACMAT100 Spring 2026
Professor Manguba-Glover
Section 3.4-3.5 Homework (HW 8) Name: _____

Show all work and simplify all answers before circling/boxing them. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for full credit.

Due next class. Students who turn assignments in late (or do not attempt a problem) forfeit their ability to rewrite those problems for credit.

(1) Find both the point-slope form and slope-intercept form of the line with slope 2 through $(1, 7)$.

(2) Find both the point-slope form and slope-intercept formof the line through points $(4, -2)$ and $(1, 9)$. Then, rewrite it as slope-intercept form.

(3) Find an equation (in any form) of the line through $(2, -3)$ and $(-6, 9)$

(4) Find an equation (in any form) of the line through $(-2, 1)$ and parallel to the graph of $y = -5x + 2$

(5) Find an equation (in any form) of the line through $(1, -4)$ and perpendicular to the graph of $-x + 7y = 14$