ACMAT100 Spring 2025
Professor Manguba-Glover
Sections 3.3-3.4 Homework (HW 7) Name: _____

Show all work and circle/box your simplified answers. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for credit. Students who turn assignments in late (or do not attempt a problem) forfeit their ability to rewrite those problems for credit.

Due at the start of next class (unless otherwise arranged with Professor MG).

(1) Graph $x + 2y = 4$ using x and y intercepts

(2) Graph $\frac{x}{3} - \frac{y}{2} = 1$ using x and y intercepts

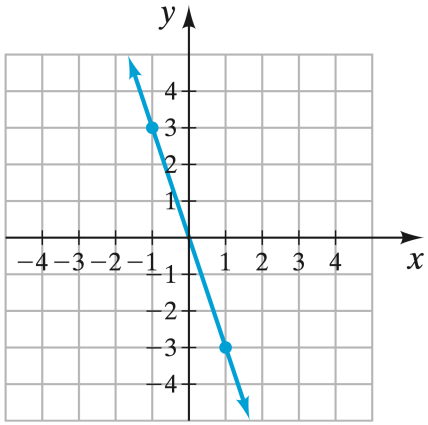
(3) Graph $y = 3x - 2$ using any method

(4) Graph $y = \frac{3}{4}x - 1$ using any method

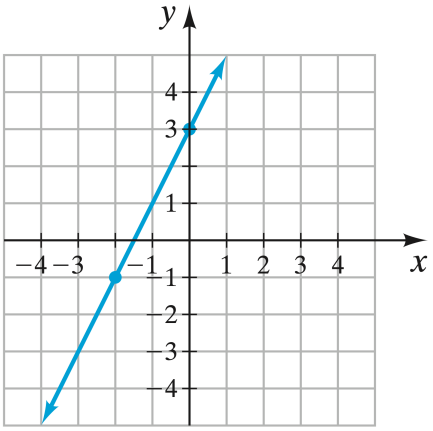
(5) Determine the slope of the line through $(1, 2)$ and $(4, 8)$, then find the equation of the line.

(6) Determine the slope of the line through $(5, 2)$ and $(1, 4)$, then find the equation of the line.

(7) Find the equation of the following line



(8) Find the equation of the following line



(9) Write $-2x + y = 6$ in slope-intercept form, then graph the line.

(10) Write $5x + 15y - 30 = 0$ in slope-intercept form, then graph the line.