8th Grade Standard Math p. 314 Lesson 5-4B: 31-36, 38, 39, 45-49 Answer key

31) 4; $4x + 3y = 5$ **32)** $\frac{1}{2}$; $\frac{1}{2}x - 4y = -1$ **33)** -4; $-x - 4y = 10$

34) 11; $8x + 11y = 4$ **35)** -5; $-5x - 3y = -5$ **36)** $\frac{2}{7}$; $2x + \frac{2}{7}y = -4$

38) 2.5p + 1.2v = 300; possible combinations include: 120 phlox and 0 vinca, 0 phlox and 250 vinca, 60 phlox and 125 vinca

39) a. 15 oz b. 12c + 15w = 120 c. 10 corn, 0 wheat; 5 corn, 4 wheat; 0 corn, 8 wheat

45) Parallel; when written in slope-intercept form, we see the slopes are the same

46) not parallel; when written in slope0intercept form, we see the slopes are not the same

47) $y + 4 = 1(x - 3)$ *or* $y + 4 = x - 3$ **48)** $y - 6 = -2(x + 6)$ **49)** $y + 1 = 5(x + 8)$