**Do Now: Are the following pairs of lines parallel, perpendicular or neither**

**Part A: Guided Practice**

**Find the point-slope, slope-intercept, and standard form of the line through the points (3, 20) and (-6, 14)**

**Point-Slope:**

**Slope-Intercept:**

**Standard:**

**Part B: Independent Practice**

**1-6: Find the equation for the lines shown below. You may choose slope-intercept or point-slope form for each one.**

**1.** slope , *y*-intercept 6 **2.** slope −10, *y*-intercept −3

**3.** slope −5, passes through (2, −3) **4.** slope , passes through (−8, 2)

**5.** passes through (0, 6) and (4, −2) **6.** passes through (−1, 8) and (5, −4)

**7-10: Rewrite each equation in slope-intercept form.**

**7.** *y* − 5 = 3(*x* − 4) **8.** *y +* 2 = −5(*x* − 1)

**9.** 2*x* + 4*y* = 8 10**.** 10*y* + 16*x* + 4 = 2*y*

**11: Error Analysis** A classmate says that the equation of a line through (3, −6) and (−1, −3) is *y* − 6 = (*x* − 3). Explain your classmate’s error and write the correct equation.

**Part C:**

**Use the given information to write an equation for each line in all 3 forms.**

1. slope = -4, through P (−2, 0)

1. slope = 3, through P (4, 2)
2. through P ( -2, 1) and Q (2, -1)