1. (20 Points) Let $L$ be the line passing through the two points (-5, 8) and (10, -4).

   a. (4 Points) Find the slope of $L$.
   
   $$ m = \frac{-4 - 8}{10 - (-5)} = \frac{-12}{15} = -\frac{4}{5} $$

   b. (4 Points) Find the point-slope form for $L$ using the point (-5, 8).
   
   $$ y - 8 = -\frac{4}{5}(x + 5) $$

   c. (4 Points) Find the slope-intercept form for $L$.
   
   $$ y = -\frac{4}{5}x - 4 + 8 \implies y = -\frac{4}{5}x + 4 $$

   d. (4 Points) Find the standard form for $L$ with integer coefficients.
   
   $$ 5y = -4x + 20 \implies 4x + 5y = 20 $$

   e. (4 Points) Graph $L$ on the coordinate system below.