

D. Level G → Still Need Guided Assistance in Moving toward Skill Mastery (STUDIES)

1. A line that passes through the points A(-2,7) and B(3,-3). Write the equation of this line in all three forms.
2. A line that passes through the points C(2,3) and D(5,8). Write the equation of this line in all three forms.
3. Given the equation $f(x) = 4 - \frac{1}{2}x$, answer the following questions:
 - (a) Evaluate $f(-12)$
 - (b) Solve for x if $f(x) = -2$
 - (c) State the slope and x - and y -intercepts
 - (d) Write the equation in standard form.
 - (e) Write the equation in point-slope form.
4. Given the equation $2x - 3y = -8$, answer the following questions:
 - (a) Evaluate $f(-12)$
 - (b) Solve for x if $f(x) = -2$
 - (c) State the slope and x - and y -intercepts
 - (d) Write the equation in slope intercept form.
 - (e) Write the equation in point-slope form.
5. Given the equation $y - 5 = \frac{2}{3}(x - 2)$, answer the following questions:
 - (a) Evaluate $f(-12)$
 - (b) Solve for x if $f(x) = -2$
 - (c) State the slope and x - and y -intercepts
 - (d) Write the equation in standard form.
 - (e) Write the equation in slope intercept form.
6. Given the equation $\frac{x}{7} - \frac{y}{2} = -1$, answer the following questions:
 - (a) Evaluate $f(-14)$
 - (b) Solve for x if $f(x) = 4$
 - (c) State the slope and x - and y -intercepts
 - (d) Write the equation in standard form.
 - (e) Write the equation in point-slope form.
7. A line passes through the point E(5,-2) and is parallel to $3x - 4y = -9$. Determine the equation of this line & express the equations in all three forms.
8. A line passes through the point E(5,-2) and is perpendicular to $2x - y = 1$. Determine the equation of this line & express the equations in all three forms.