QUIZ 6.3 – 6.5

1. Graph the following lines: [2]
a) $y=-\frac{3}{4}x+5$ b) $y-1=\frac{1}{7}(x-3)$


2. Determine an equation for each of the following lines: [2]


3. If a line has equation $y-3=\frac{5}{3}(x+2)$, its slope is \_\_\_\_\_\_ [2]

and it passes through ( \_\_\_\_\_ ; \_\_\_\_\_ ).
4. Change this equation into slope-intercept form: $y+3=-\frac{1}{6}(x-3)$ [2]
5. Determine the *y*-intercept of the following lines: [2]
a) $y=3x-5$ b) $y+1=-\frac{5}{6}(x-2)$
6. Determine the equation in slope-intercept form of the line with slope $\frac{1}{2}$ and passing through $\left(-2 , 3\right)$, [2]
7. Determine an equation of the line passing through $A(1,5)$ and $B(-2,-3)$. [2]
8. Determine algebraically the *x* and the *y*-intercepts of the line with equation $y=-\frac{3}{5}x+6$
 [2]
9. The student council sponsored a dance. A ticket cost $5 and the cost for the DJ was $300.
a) Write an equation for the profit P dollars, on the sale of *t* tickets. [4]

b) Suppose 123 people bought tickets. What was the profit?

c) Suppose the profit was $350. How many people bought tickets?