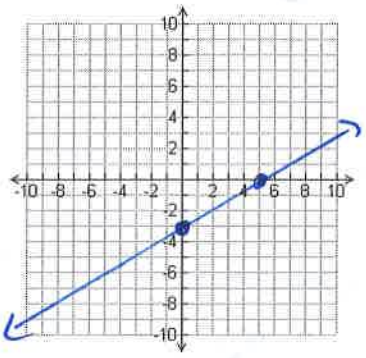
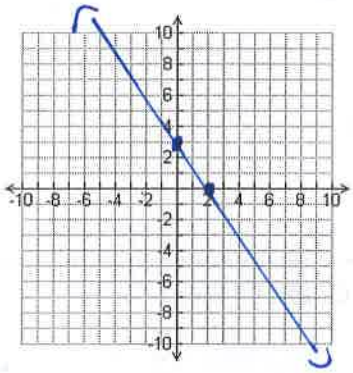
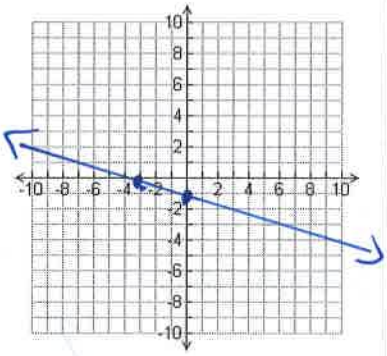
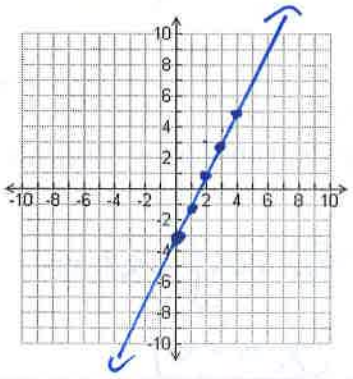
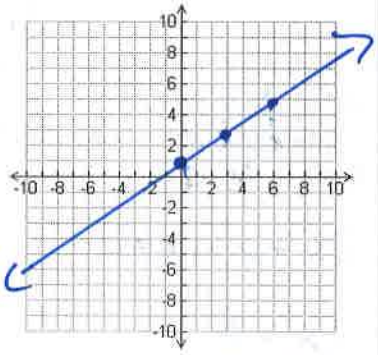
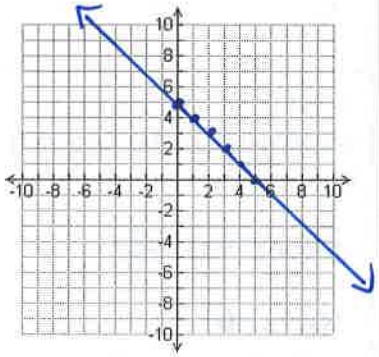
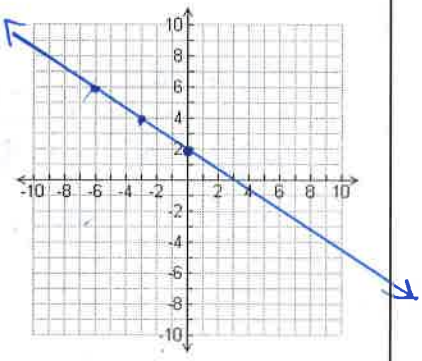
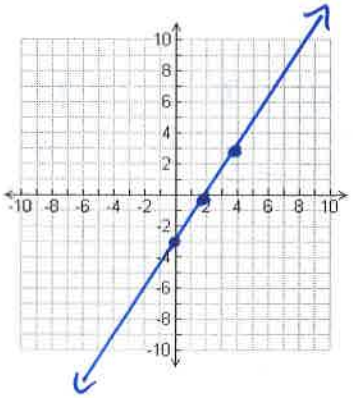
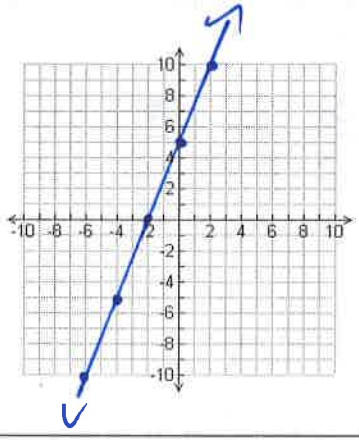
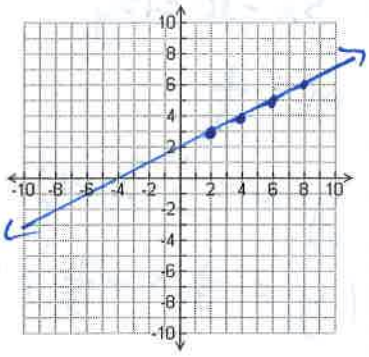
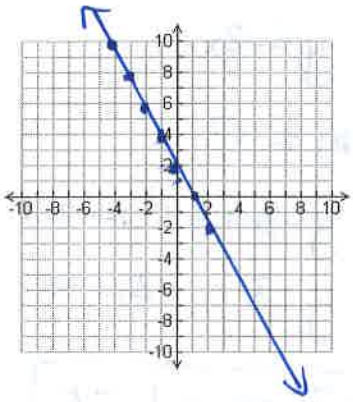
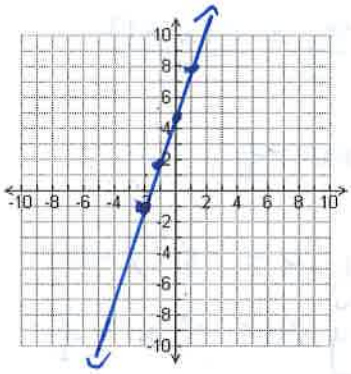
Math 10 100% Quiz Unit 5 Name KEY

1. Graph the equation of a line with x-int 5 and y-int -3: 	Graph the equation of a line with x-int 2 and y-int 3: 	Graph the equation of a line with x-int -3 and y-int -1: 
2. What are the x and y-intercepts of the following line? $3x+2y+6=0$ $3x+0+6=0$ $3x=-6$ $\boxed{x=-2}$ $0+2y+6=0$ $2y=-6$ $\boxed{y=-3}$	What are the x and y-intercepts of the following line? $2x-4y-12=0$ $2x+0-12=0$ $\boxed{x=6}$ $0-4y-12=0$ $\boxed{y=-3}$	What are the x and y-intercepts of the following line? $5x+2y+30=0$ $5x+0y+30=0$ $\boxed{x=-6}$ $0+2y+30=0$ $\boxed{y=-15}$
3. Find the slope of the line that passes through (-2,3) and (5,-2) $\frac{3--2}{-2-5}=\frac{5}{-7}$	Find the slope of the line that passes through (-1,4) and (2,-3) $\frac{4--3}{-1-2}=\frac{7}{-3}$	Find the slope of the line that passes through (-2,-3) and (-5,-2) $\frac{-3--2}{-2--5}=\frac{-1}{3}$

4. Find the equation of a line with slope ⅓ and y-int 5 in slope intercept form: $y = \frac{1}{3}x + 5$	Find the equation of a line with slope $-\frac{2}{3}$ and y-int 4 in slope intercept form: $y = -\frac{2}{3}x + 4$	Find the equation of a line with slope 5 and y-int ⅔ in slope intercept form: $y = 5x + \frac{2}{3}$
5. Graph y=2x-3 	Graph y=⅔x+1 	Graph y=-x+5 
6. Graph 2x+3y-6=0 $3y = -2x + 6$ $y = -\frac{2}{3}x + 2$ 	Graph 3x-2y-6=0 $+2y$ $2y = 3x - 6$ $y = \frac{3}{2}x - 3$ 	Graph 5x-2y+10=0 $+2y$ $2y = \frac{5x+10}{2}$ $y = \frac{5}{2}x + 5$ 

7. Graph $y-3=\frac{1}{2}(x-2)$	Graph $y-4=-2(x+1)$	Graph $y+1=3(x+2)$
		
8. Write the equation of the line that goes through (-3,2) and (-2,5) in all three forms $m=\frac{2-5}{-3--2}=\frac{-3}{-1}=3$ $y-2=3(x+3)$ $y-2=3x+9$ $y=3x+11$ $0=3x-y+11$	Write the equation of the line that goes through (5,-2) and (-2,-5) in all three forms $\frac{-2--5}{5--2}=\frac{3}{7}$ $y+2=\frac{3}{7}(x-5)$ $y+2=\frac{3}{7}x-\frac{15}{7}$ $7y+14=3x-15$ $0=3x-7y-29$ $y+2=\frac{3}{7}x-\frac{15}{7}$ $y=\frac{3}{7}x-\frac{29}{7}$	Write the equation of the line that goes through (3,2) and (-5,5) in all three forms $\frac{2-5}{3--5}=\frac{-3}{8}$ $y-2=\frac{-3}{8}(x-3)$ $y-2=\frac{-3}{8}x+\frac{9}{8}$ $8y-16=-3x+9$ $3x+8y-25=0$ $y=\frac{-3}{8}x+\frac{25}{8}$

9. Write the equation of the line that is parallel to $4x+8y-12=0$ and goes through (3,4) in general form $8y = \frac{-4x+12}{8}$ $m = -\frac{1}{2}$ $y-4 = -\frac{1}{2}(x-3)$ $y-4 = -\frac{1}{2}x + \frac{3}{2}$ $2y-8 = -1x+3$ $1x+2y-11=0$	Write the equation of the line that is parallel to $2x+y-1=0$ and goes through (-2,3) in general form $y=-2x+1$ $m=-2$ $y-3=-2(x+2)$ $y-3=-2x-4$ $2x+y+1=0$	Write the equation of the line that is parallel to $5x-15y-30=0$ and goes through (-1,0) in general form $5x-30=15y$ $m=\frac{1}{3}$ $y-0=\frac{1}{3}(x+1)$ $(y=\frac{1}{3}x+\frac{1}{3})\ 3$ $3y=1x+1$ $0=x-3y+1$
10. Write the equation of the vertical line that goes through (3,4) $x=3$ or $x+0y-3=0$	Write the equation of the horizontal line that goes through (5,-6) $y=-6$ or $0x+y+6=0$	Write the equation of the vertical line that goes through (0,5) $x=0$ or $x+0y=0$