Math 1

Name_____

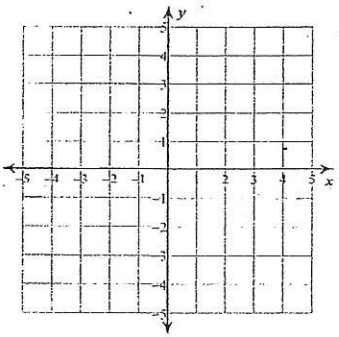
Worksheet 11.0

Date_____ Period____

Solve each system by graphing.

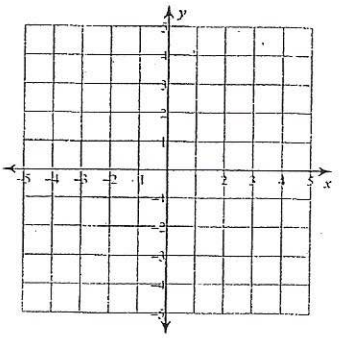
1) $y=-\frac{5}{4}x-1$

$y=4$



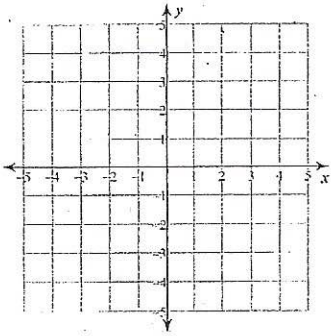
2) $y=-\frac{2}{3}x+2$

$y=-\frac{8}{3}x-4$



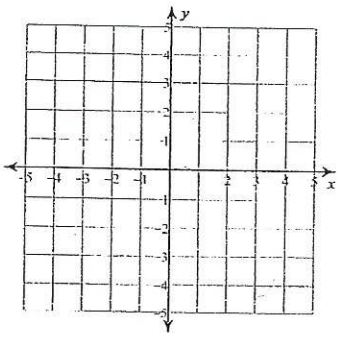
3) $y=\frac{3}{2}x-4$

$y=\frac{1}{4}x+1$



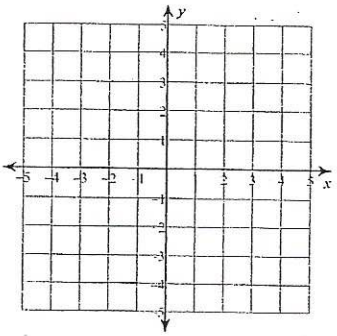
4) $y=-2x+3$

$y=-2x+1$



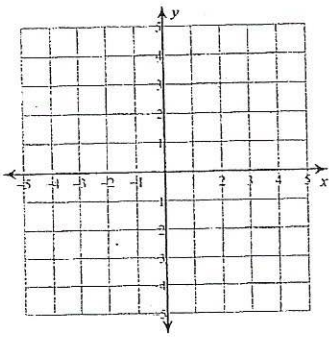
5) $y=-x+1$

$y=-6x-4$



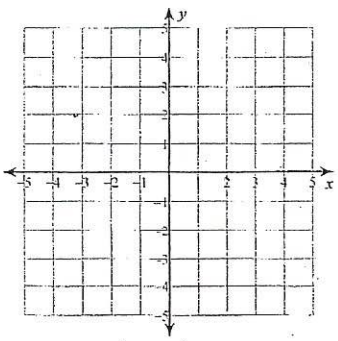
6) $y=-\frac{5}{4}x-2$

$y=\frac{1}{4}x+4$



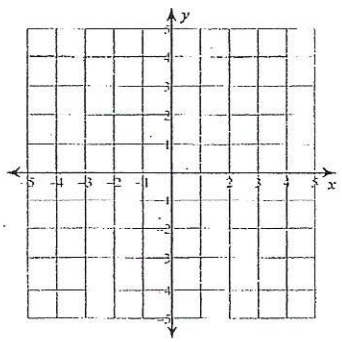
7) $y=-x-3$

$y=-8x+4$



8) $y=-\frac{2}{3}x+3$

$y=\frac{4}{3}x-3$



Write the slope-intercept form of the equation of the line through the given point with the given slope.

$y-y_1=m(x-x_1) \longrightarrow y=mx+b$

9) through: $(-2,-4)$, slope $=\frac{3}{2}$

10) through: $(0,-5)$, slope $=0$

Write the slope-intercept form of the equation of the line through the given points. Don't forget: $m = \frac{y_2 - y_1}{x_2 - x_1}$

11) through: $(-2, 5)$ and $(-4, 5)$

12) through: $(-5, 4)$ and $(2, -1)$

13) through: $(0, -5)$ and $(-1, 3)$

14) through: $(3, -2)$ and $(1, -5)$

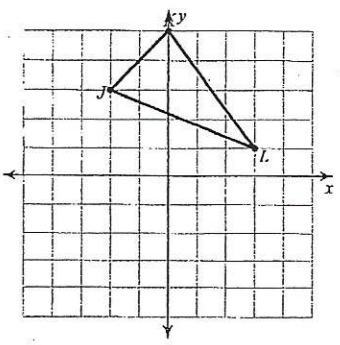
Write the slope-intercept form of the equation of the line described.

15) through: $(-2, -3)$, parallel to $y = \frac{5}{2}x + 4$

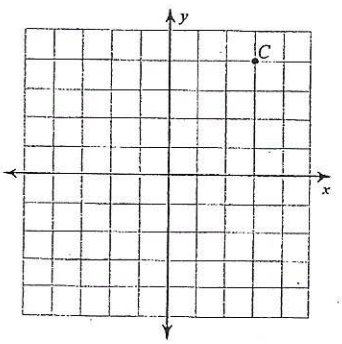
16) through: $(2, -1)$, perp. to $y = \frac{1}{3}x + 4$

Graph the image of the figure using the transformation given.

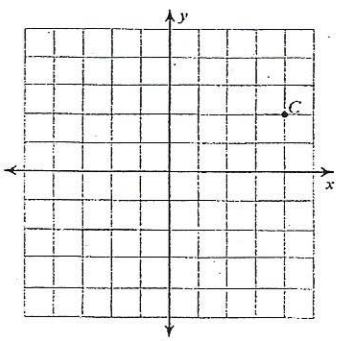
17) translation: 1 unit right and 5 units down



18) reflection across the y-axis



19) reflection across the x-axis



20) rotation 180° about the origin