Name:_____CLASS WORK

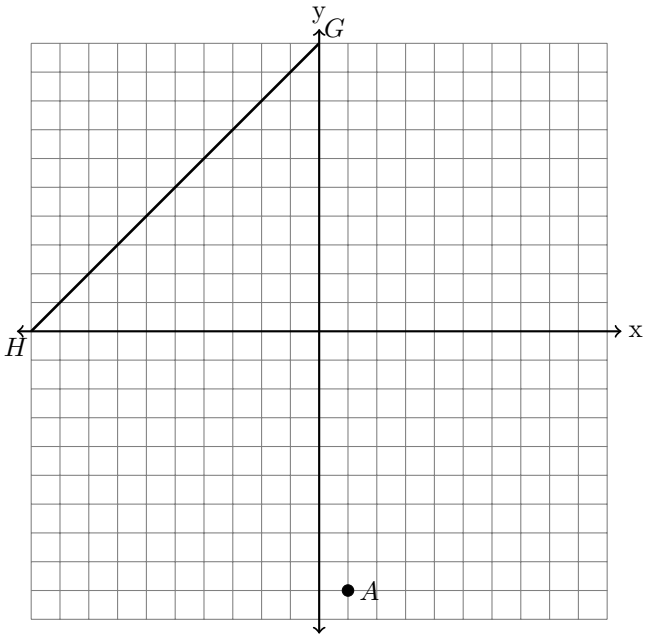
4.10 - Perpendicular-Parallel Lines Mixed - CW #:_____

1. What is the equation of a line that is perpendicular and goes through (-1,6) to the line whose equation is $y + x = -10$?

2. What is the equation of a line that is perpendicular and goes through (2,9) to the line whose equation is $y = 2x$?

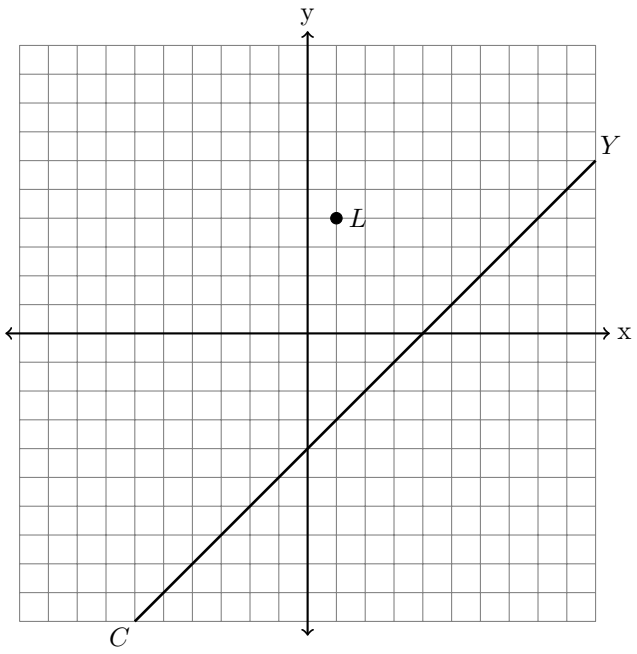
3. What is the equation of a line that is parallel and goes through (3,4) to the line whose equation is $-4-y = -3x$?

4. Given the graph below of graph below of line HG, what is the equation of a line that is perpendicular to $\overline{HG}$ and goes through A(1,-9)?

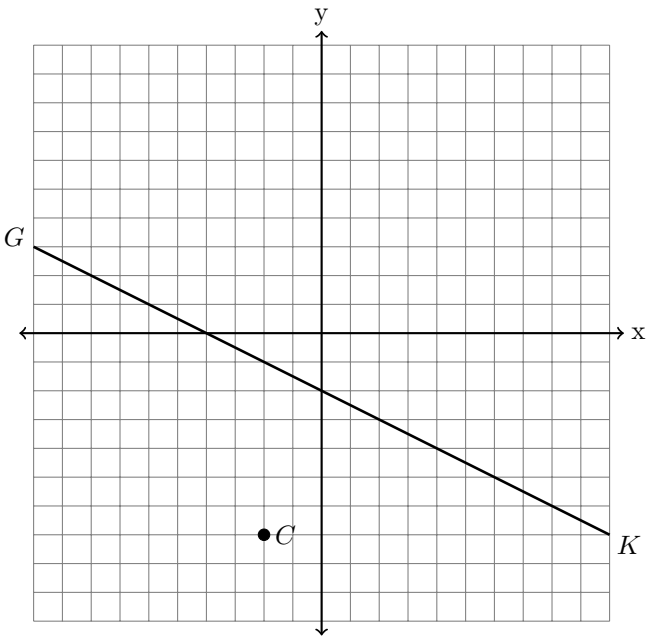


5. What is the equation of a line that is perpendicular and goes through (-2,4) to the line whose equation is $2y = -x$?

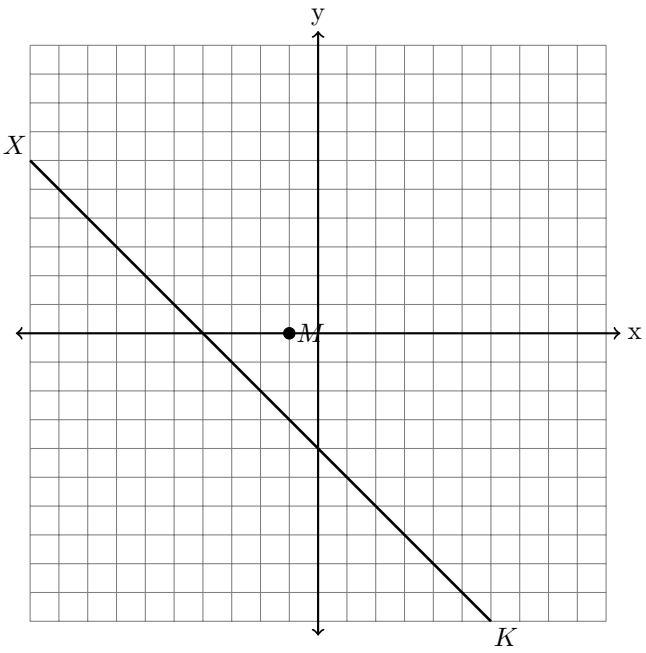
6. Given the graph below of graph below of line CY, what is the equation of a line that is parallel to $\overline{CY}$ and goes through L(1,4)?



7. Given the graph below of graph below of line GK, what is the equation of a line that is parallel to $\overline{GK}$ and goes through C(-2,-7)?

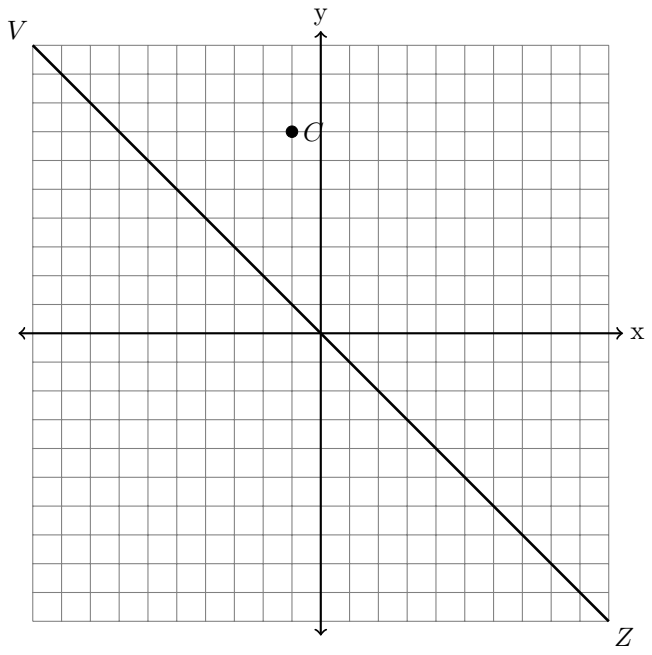


8. Given the graph below of graph below of line XK, what is the equation of a line that is parallel to $\overline{XK}$ and goes through M(-1,0)?

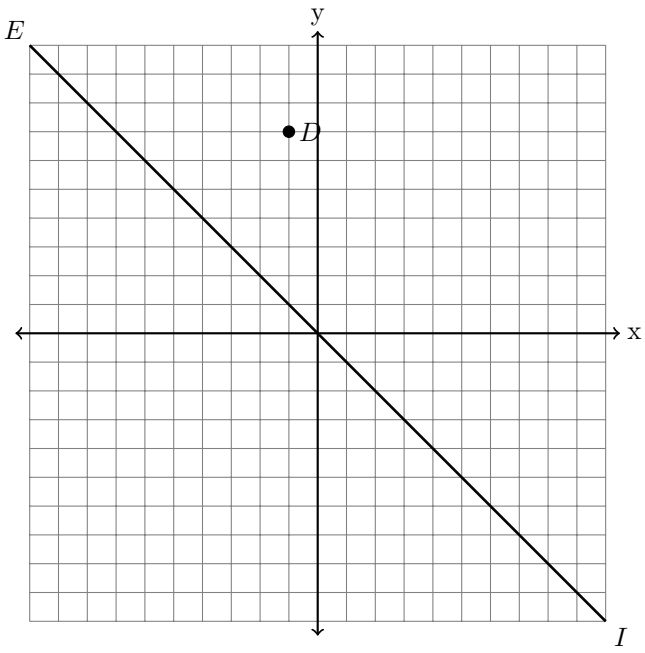


9. What is the equation of a line that is perpendicular and goes through (1,4) to the line whose equation is $-y+x=-2$?

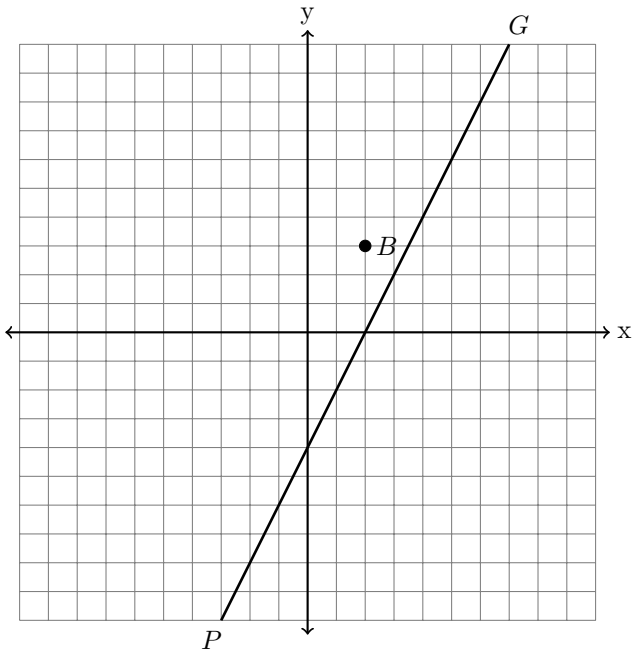
10. Given the graph below of graph below of line VZ, what is the equation of a line that is parallel to $\overline{VZ}$ and goes through C(-1,7)?



11. Given the graph below of graph below of line EI, what is the equation of a line that is parallel to $\overline{EI}$ and goes through D(-1,7)?

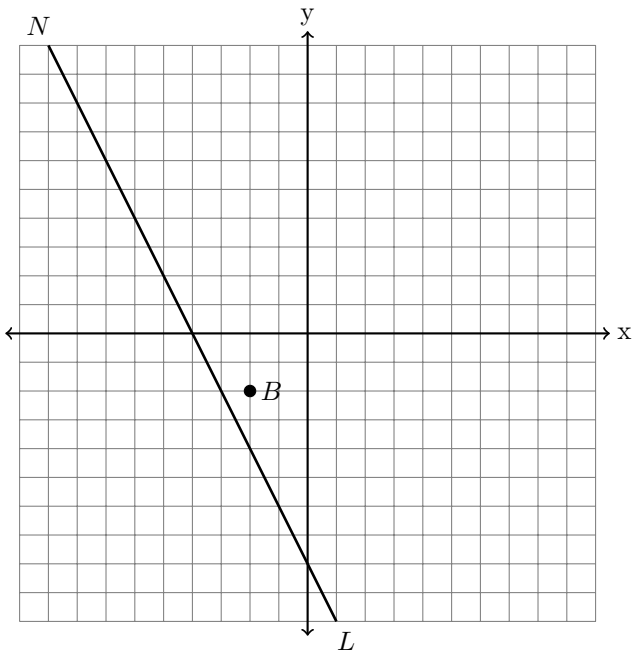


12. Given the graph below of graph below of line PG, what is the equation of a line that is parallel to $\overline{PG}$ and goes through B(2,3)?

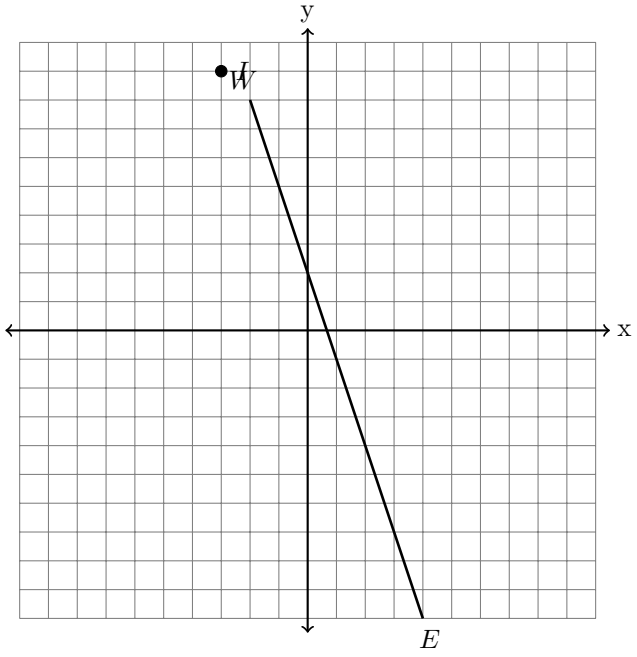


13. What is the equation of a line that is parallel and goes through (2,5) to the line whose equation is $-x+2y=-4$?

14. Given the graph below of graph below of line NL, what is the equation of a line that is perpendicular to $\overline{NL}$ and goes through B(-2,-2)?



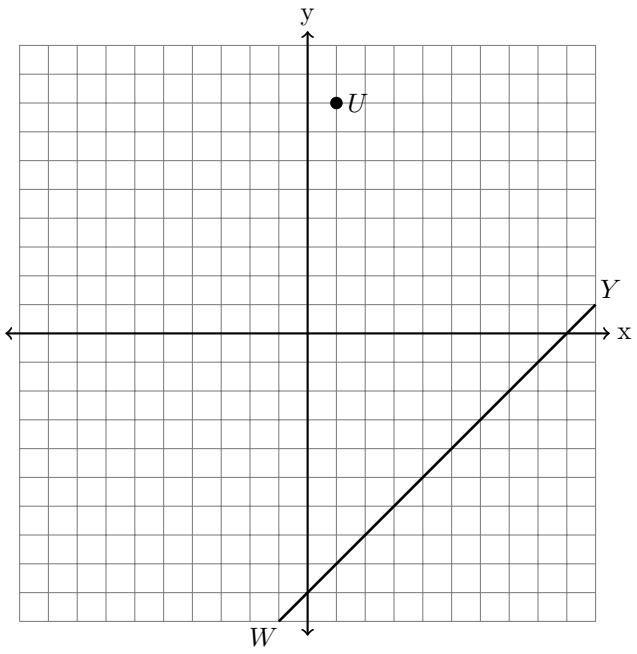
15. Given the graph below of graph below of line WE, what is the equation of a line that is parallel to $\overline{WE}$ and goes through I(-3,9)?



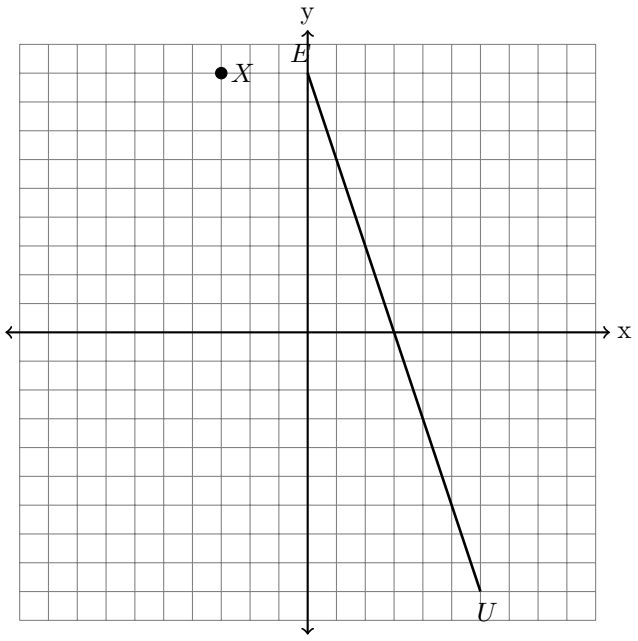
16. What is the equation of a line that is parallel and goes through (2,-5) to the line whose equation is $-4+y=2x$?

17. What is the equation of a line that is parallel and goes through (-2,-9) to the line whose equation is $2y = -x$?

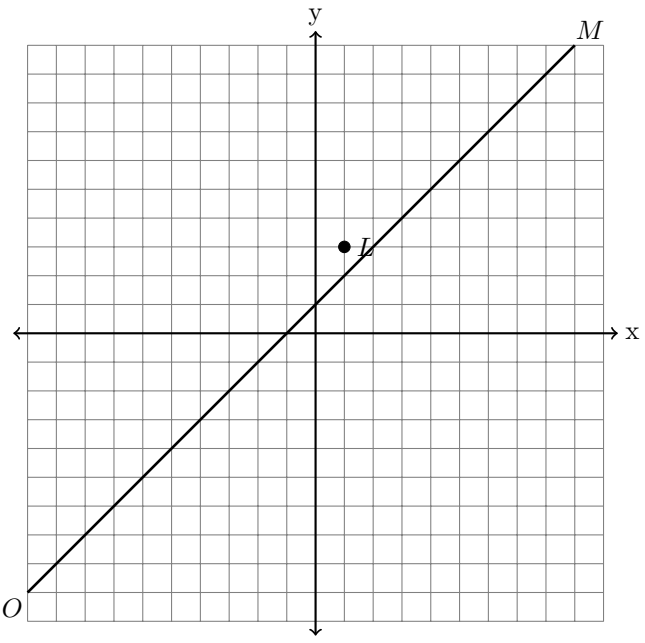
18. Given the graph below of graph below of line WY, what is the equation of a line that is perpendicular to $\overline{WY}$ and goes through U(1,8)?



19. Given the graph below of graph below of line EU, what is the equation of a line that is perpendicular to $\overline{EU}$ and goes through X(-3,9)?



20. Given the graph below of graph below of line OM, what is the equation of a line that is perpendicular to $\overline{OM}$ and goes through L(1,3)?



Name:_____CLASS WORK

4.10 - Perpendicular-Parallel Lines Mixed - CWAnswers #:_____

1. $y = x + 7$
2. $y = -\frac{1}{2}x + 10$
3. $y = 3x - 5$
4. $y = -x - 8$
5. $y = 2x + 8$
6. $y = x + 3$
7. $y = -\frac{1}{2}x - 8$
8. $y = -x - 1$
9. $y = -x + 5$
10. $y = -x + 6$
11. $y = -x + 6$
12. $y = 2x - 1$
13. $y = \frac{1}{2}x + 4$
14. $y = \frac{1}{2}x - 1$
15. $y = -3x$
16. $y = 2x - 9$
17. $y = -\frac{1}{2}x - 10$
18. $y = -x + 9$
19. $y = \frac{1}{3}x + 10$
20. $y = -x + 4$