

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

2. What is the equation of a line that is perpendicular and goes through (-1,-7) to the line whose equation is $y = -x$?

3. What is the equation of a line that is perpendicular and goes through (1,-8) to the line whose equation is $y = x$?

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

5. What is the equation of a line that is perpendicular and goes through $(-1,7)$ to the line whose equation is $y = -x - 4$?

6. What is the equation of a line that is perpendicular and goes through $(-2,-6)$ to the line whose equation is $y = -2x + 8$?

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

8. What is the equation of a line that is perpendicular and goes through $(-6,-5)$ to the line whose equation is $-3y = 2x$?

9. What is the equation of a line that is perpendicular and goes through $(3,-7)$ to the line whose equation is $-3y - 6 = -x$?

10. What is the equation of a line that is perpendicular and goes through $(2,-7)$ to the line whose equation is $2y - 2 = x$?

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

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

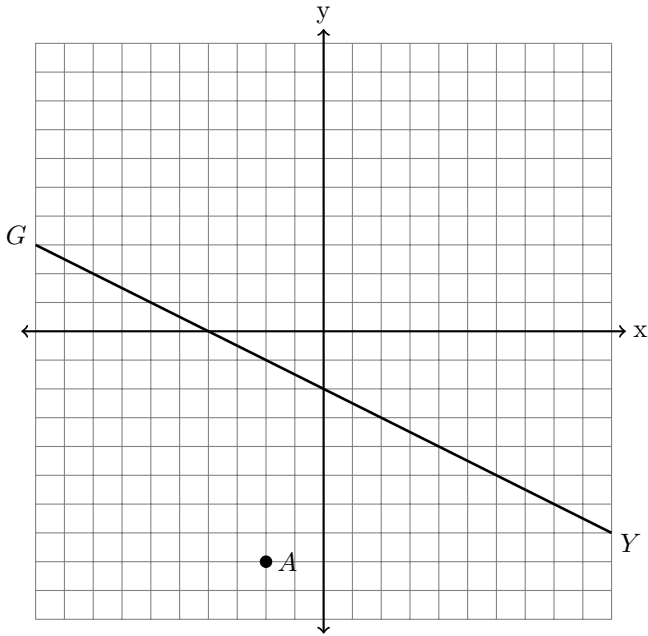
13. What is the equation of a line that is perpendicular and goes through $(-2,9)$ to the line whose equation is $-8 + y = -2x$?

14. What is the equation of a line that is perpendicular and goes through $(1,0)$ to the line whose equation is $-3 + y = x$?

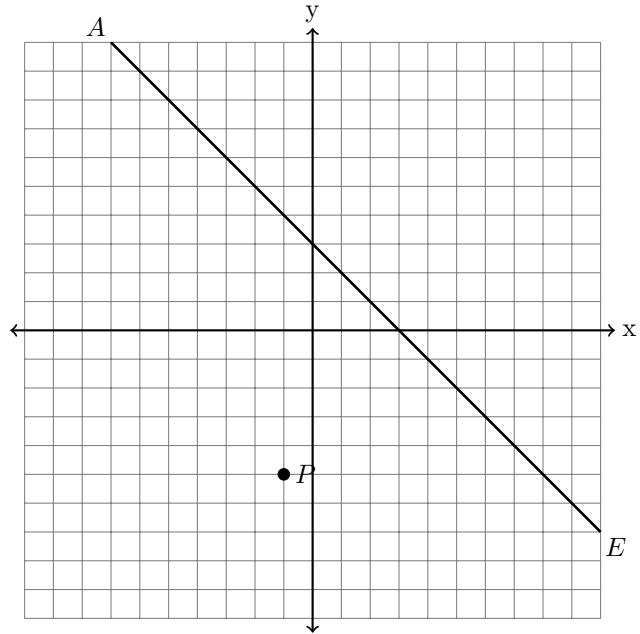
15. What is the equation of a line that is perpendicular and goes through $(-1,-9)$ to the line whose equation is $-x - y = -8$?

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

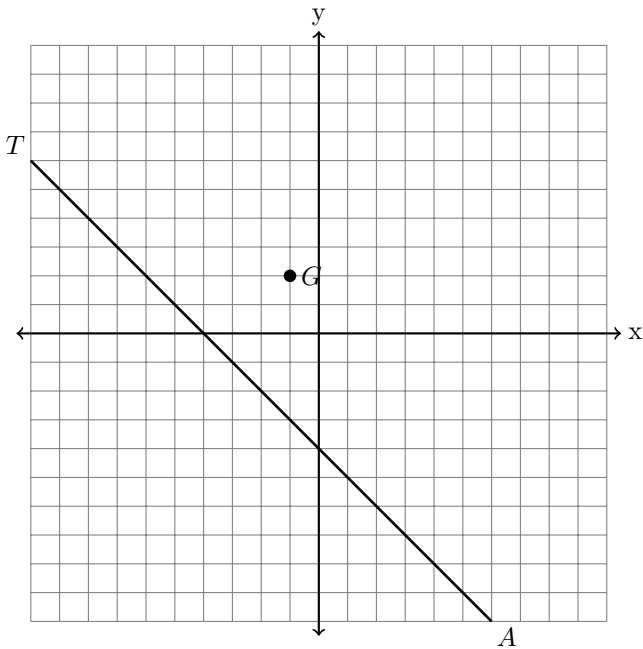
17. Given the graph below of graph below of line \overline{GY} , what is the equation of a line that is perpendicular to \overline{GY} and goes through $A(-2,-8)$?



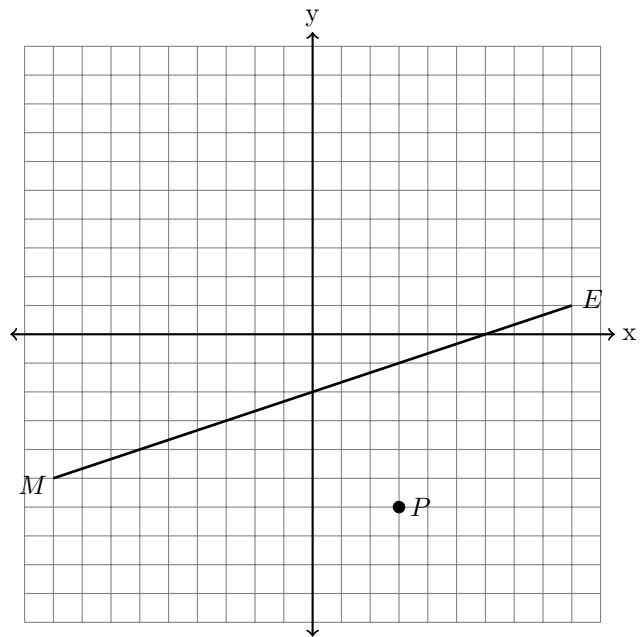
18. Given the graph below of graph below of line \overline{AE} , what is the equation of a line that is perpendicular to \overline{AE} and goes through $P(-1,-5)$?



19. Given the graph below of graph below of line \overline{TA} , what is the equation of a line that is perpendicular to \overline{TA} and goes through $G(-1,2)$?



20. Given the graph below of graph below of line \overline{ME} , what is the equation of a line that is perpendicular to \overline{ME} and goes through $P(3,-6)$?



1. $y = -\frac{1}{2}x - 3$

2. $y = x - 6$

3. $y = -x - 7$

4. $y = \frac{1}{2}x + 5$

5. $y = x + 8$

6. $y = \frac{1}{2}x - 5$

7. $y = x + 3$

8. $y = \frac{3}{2}x + 4$

9. $y = -3x + 2$

10. $y = -2x - 3$

11. $y = -\frac{1}{2}x + 5$

12. $y = x - 8$

13. $y = \frac{1}{2}x + 10$

14. $y = -x + 1$

15. $y = x - 8$

16. $y = \frac{1}{2}x - 4$

17. $y = 2x - 4$

18. $y = x - 4$

19. $y = x + 3$

20. $y = -3x + 3$