4.9 - Perpendicular-Parallel Lines Through a Point Graph - CW
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1. Given the graph below of graph below of line OX, what is the equation of a line that is parallel to $\overline{O X}$ and goes through $\mathrm{F}(2,-2)$ ?

2. Given the graph below of graph below of line FK, what is the equation of a line that is parallel to $\overline{F K}$ and goes through $\mathrm{D}(2,-4)$ ?

3. Given the graph below of graph below of line IV, what is the equation of a line that is parallel to $\overline{I V}$ and goes through $\mathrm{D}(3,6)$ ?

4. Given the graph below of graph below of line FD, what is the equation of a line that is parallel to $\overline{F D}$ and goes through $\mathrm{S}(-3,-3)$ ?

5. Given the graph below of graph below of line DH , what is the equation of a line that is parallel to $\overline{D H}$ and goes through $\mathrm{O}(3,8)$ ?

6. Given the graph below of graph below of line UG, what is the equation of a line that is parallel to $\overline{U G}$ and goes through $\mathrm{Z}(6,-4)$ ?

7. Given the graph below of graph below of line TR what is the equation of a line that is parallel to $\overline{T R}$ and goes through $\mathrm{S}(-2,3)$ ?

8. Given the graph below of graph below of line SR, what is the equation of a line that is parallel to $\overline{S R}$ and goes through $\mathrm{B}(1,4)$ ?

9. Given the graph below of graph below of line HW, what is the equation of a line that is perpendicular to $\overline{H W}$ and goes through $\mathrm{A}(1,0)$ ?

10. Given the graph below of graph below of line SX, what is the equation of a line that is perpendicular to $\overline{S X}$ and goes through $\mathrm{E}(3,-2)$ ?

11. Given the graph below of graph below of line VK, what is the equation of a line that is perpendicular to $\overline{V K}$ and goes through $\mathrm{T}(3,2)$ ?

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

13. Given the graph below of graph below of line EC, what is the equation of a line that is perpendicular to $\overline{E C}$ and goes through $\mathrm{O}(2,1)$ ?

14. Given the graph below of graph below of line XO, what is the equation of a line that is perpendicular to $\overline{X O}$ and goes through $\mathrm{D}(-1,-6) ?$

15. Given the graph below of graph below of line XF, what is the equation of a line that is perpendicular to $\overline{X F}$ and goes through $\mathrm{Z}(3,-2)$ ?

16. Given the graph below of graph below of line RL, what is the equation of a line that is perpendicular to $\overline{R L}$ and goes through $\mathrm{O}(6,0)$ ?

17. Given the graph below of graph below of line MC, what is the equation of a line that is parallel to $\overline{M C}$ and goes through $\mathrm{P}(1,6)$ ?

18. Given the graph below of graph below of line PG, what is the equation of a line that is perpendicular to $\overline{P G}$ and goes through $\mathrm{E}(1,-3)$ ?

19. Given the graph below of graph below of line RM, what is the equation of a line that is parallel to $\overline{R M}$ and goes through $\mathrm{Y}(2,1)$ ?

20. Given the graph below of graph below of line VH , what is the equation of a line that is parallel to $\overline{V H}$ and goes through $\mathrm{A}(1,-9)$ ?

4.9 - Perpendicular-Parallel Lines Through a Point Graph - CWAnswers
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21. $y=\frac{1}{2} x-3$
22. $y=\frac{1}{2} x-5$
23. $y=3 x-3$
24. $y=-\frac{1}{3} x-4$
25. $y=3 x-1$
26. $y=\frac{2}{3} x-8$
27. $y=-2 x-1$
28. $y=x+3$
29. $y=-x+1$
30. $y=-3 x+7$
31. $y=-\frac{1}{3} x+3$
32. $y=\frac{1}{2} x-1$
33. $y=-2 x+5$
34. $y=x-5$
35. $y=-3 x+7$
36. $y=-\frac{3}{2} x+9$
37. $y=x+5$
38. $y=-x-2$
39. $y=2 x-3$
40. $y=x-10$
