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Show all of your work.

1. Write the equation of the line with slope of -5 that contains the point $(2,-6)$.
2. Write the equation of the line that passes through the points $(-3,6)$ and $(0,2)$.
3. Write the equation of the line that has $x$-intercept at -2.5 and contains the point $(4,-5)$.
4. Write the equation of the line that has an $x$-intercept at 4 and a $y$-intercept at -9 .
5. Find the equation of the line that passes through $(4,-5)$ and is parallel to the line with equation $5 x-2 y=6$.
6. Write the equation of the line that passes through $(-2,3)$ and is perpendicular to the line that contains the points $(5,-2)$ and $(-5,4)$.
7. Find the distance between the points $(5,-2)$ and $(-5,4)$.
8. Find the midpoint of the line segment with endpoints $(5,-2)$ and $(-5,4)$.
9. Find the $x$ - and $y$-intercepts of $y=x^{3}-4 x^{2}-9 x+36$.
10. Find the $x$ - and $y$-intercepts of $y=|3 x-2|-1$.
