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1. What is the slope of a line that is perpendicular to the line whose equation is $3 x+5 y=4$ ?
2. What is the slope of a line perpendicular to the line whose equation is $2 y=-6 x+8$ ?
3. What is the slope of a line that is parallel to the line represented by the equation $x+2 y=3$ ?
4. Which equation represents a line parallel to the line whose equation is $2 y-5 x=10$ ?
1) $5 y-2 x=25$
2) $5 y+2 x=10$
3) $4 y-10 x=12$
4) $2 y+10 x=8$
5. Which equation represents a line perpendicular to the line whose equation is $2 x+3 y=12$ ?
1) $6 y=-24 x+12$
2) $2 y=3 x+6$
3) $2 y=-3 x+6$
4) $3 y=-2 x+12$
6. The lines $3 y+1=6 x+4$ and $2 y+1=x-9$ are
1) parallel
2) perpendicular
3) the same line
4) neither parallel nor perpendicular
7. Given two lines whose equations are $3 x+y-8=0$ and $-2 x+b y+9=0$, determine the value of $b$ such that the two lines will be perpendicular.
8. What is an equation of the line that passes through the point (4,-6) and has a slope of -3 in slope-intercept form?
9. What is an equation of the line that passes through the points $(1,3)$ and $(8,5)$ in point-slope form?
10. Write the standard form of the equation for the line that passes through the points $(-2,3)$ and $(7,7)$.
