

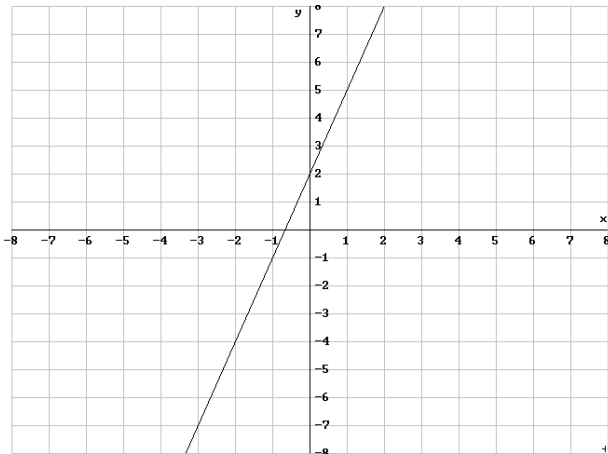


Topic 10: Linear Equations in Two Variables

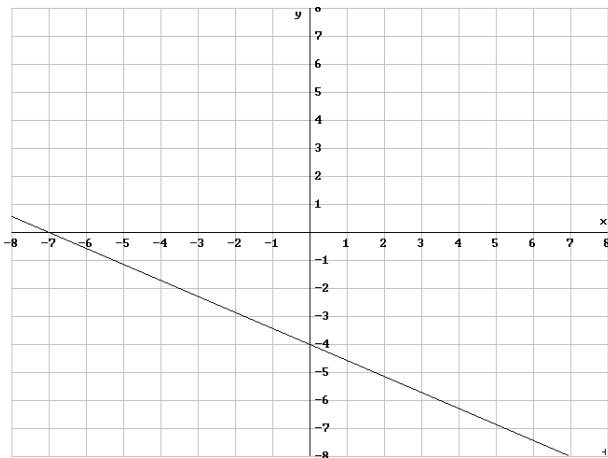
1. If the point $(6, y)$ is on the graph of the equation $9x + y = 6$, determine the value of y .
2. If the point $(x, -5)$ is on the graph of the equation $8x - 5y = 7$, determine the value of x .
3. If the point $(8, y)$ is on the graph of the equation $-3x + 6y = -9$, determine the value of y .
4. If the point $(x, -4)$ is on the graph of the equation $10x + 8y = -12$, determine the value of x .
5. Determine the equation of the line having slope 5 and passing through the point $(2, -8)$.
Express final answer in slope intercept form (i.e., $y=mx+b$).
6. Determine the equation of the line having slope $\frac{1}{3}$ and passing through the point $(9, 1)$.
Express final answer in slope intercept form (i.e., $y=mx+b$).
7. Determine the equation of the line having slope $-\frac{1}{4}$ and passing through the point $(-6, 5)$.
Express final answer in standard form (i.e., $Ax+By= C$).
8. Determine the equation of the line passing through the points $(3, -2)$ and $(-9, -6)$. *Express final answer in standard form (i.e., $Ax+By= C$).*
9. Determine the equation of the line having undefined slope and passing through the point $(5, -2)$. *Express final answer in standard form (i.e., $Ax+By= C$).*
10. Determine the equation of the line having slope 0 and passing through the point $(-4, -11)$.
Express final answer in standard form (i.e., $Ax+By= C$).



11. Determine the equation of the line given below. *Express final answer in standard form (i.e., $Ax+By= C$).*

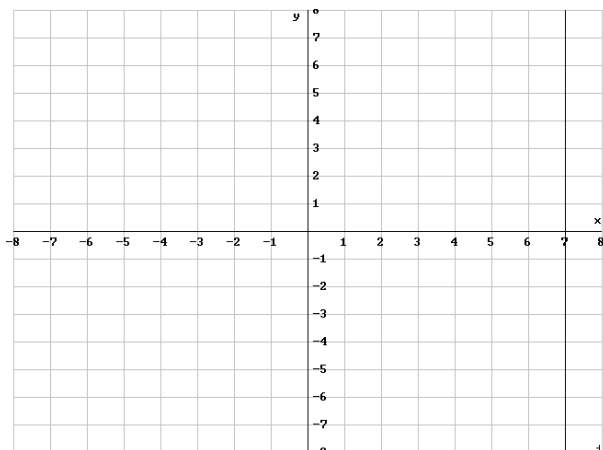


12. Determine the equation of the line given below. *Express final answer in slope-intercept form (i.e., $y=mx+b$).*

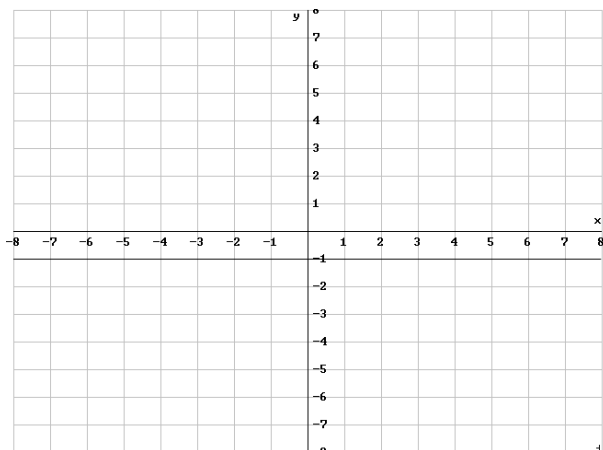




13. Determine the equation of the line given below. *Express final answer in standard form (i.e., $Ax+By= C$).*



14. Determine the equation of the line given below. *Express final answer in standard form (i.e., $Ax+By= C$).*



15. Determine the slope, the y-intercept, and the x-intercept for the linear equation $3x - 8y = 1$.
16. Determine the slope, the y-intercept, and the x-intercept for the linear equation $-5x + 10y = -10$.
17. Determine the x-intercept of the line passing through the points (7, 2) and (1, 1).



18. Determine the y-intercept of the line having slope $\frac{7}{6}$ and passing through the point $(-2, 3)$.
19. Determine the x- and y-intercepts of the line passing through the points $(-8, 10)$ and $(-8, -4)$.
20. Determine the x- and y-intercepts of the line passing through the points $(7, 12)$ and $(-1, 12)$.