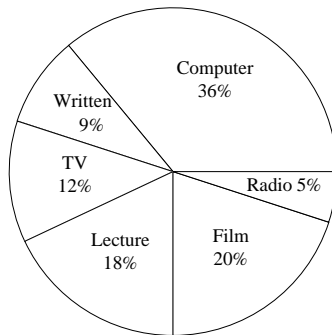
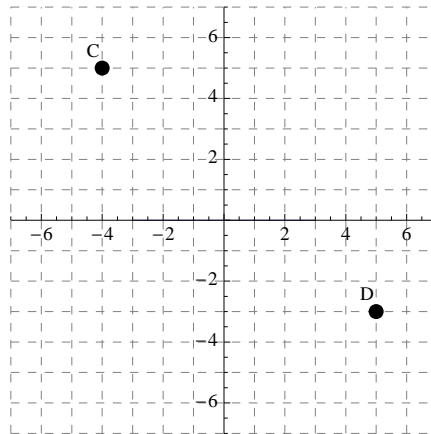


1. In a school survey, students showed these preferences for instructional materials. About how many students would you expect to prefer written materials in a school of 450 students?

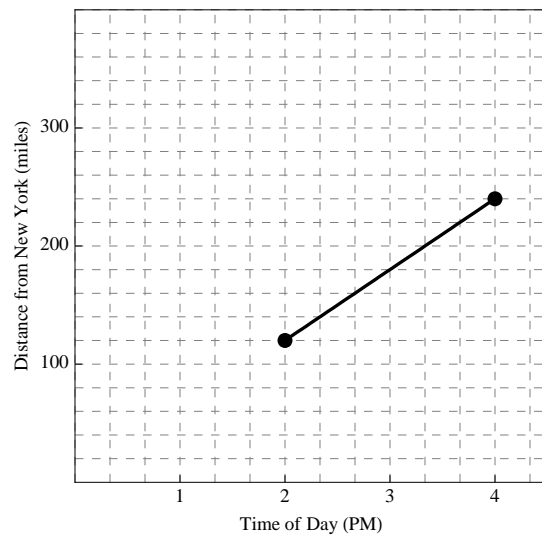


2. Find the coordinates of the labeled points.

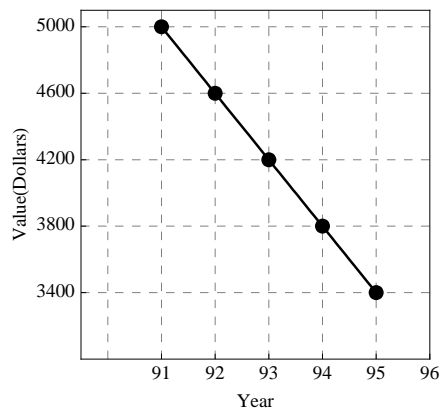


3. Decide whether or not the ordered pair $(-4, -5)$ is a solution to the equation $9x + 10y = -86$.
4. Graph the equation $y = 2x - 2$.
5. Graph the equation $8y + 12x = 24$.
6. Graph the equation $-5x + y = 0$.
7. Graph the equation $5x = -35$.

8. Find the intercepts for the equation $-4x + y = -4$.
9. At 10:00 AM, Gavin rented a mountain bike. He returned the bike at 4:00 PM. He biked for 39 miles. He paid \$24.00 for the rental. Find the rental rate, in dollars per mile.
10. The following graph shows data for a recent train ride from New York to Toronto. At what rate did the train travel?



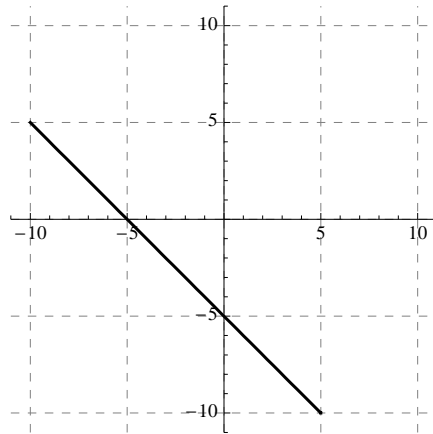
11. Find the rate of change in the value of Bob's car.



12. Find the slope of the line containing the points $(-5, -7)$ and $(6, -7)$. If the slope is undefined, state so.
13. Draw a line with slope $-\frac{1}{3}$ and y -intercept $(0, 6)$.
14. Find the slope and the y -intercept of the line $-3x + 4y = -4$.
15. Find the slope-intercept equation for the line with slope $\frac{8}{5}$ and y -intercept $(0, -6)$.
16. Graph $y = -\frac{1}{3}x + 3$.
17. Determine whether the pair of equation represents perpendicular lines, parallel lines or neither.

$$\begin{cases} 4x - 3y = 10 \\ y = -\frac{3}{4}x + 5 \end{cases}$$

18. Find the equation in point-slope form of the line have slope $m = 5$ and passing through the point $(4, -6)$.
19. Write the equation of the line on the graph in slope-intercept form.



20. Find an equation of the line containing the pair of points $(-5, 6)$ and $(-8, 8)$. Write the final answer in slope-intercept form.