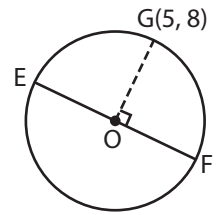
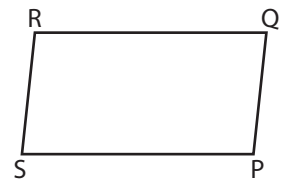


Equation of a Line

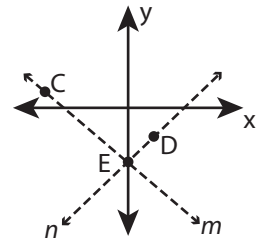
- 1) The diameter of a circle is represented by the equation $x + 2y = 6$. Find the equation of the line OG that passes through the point G at $(5, 8)$ and perpendicular to EF .



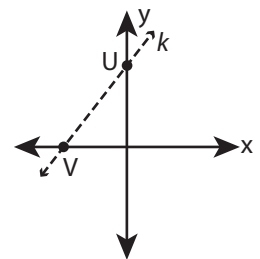
- 2) Find the equation of the line PQ passing through the point $(-1, -4)$ and it is parallel to the line RS with the slope of 10.



- 3) The line m passes through the point $C(-6, 1)$ and the line n passes through the point $D(2, -2)$. Find the equation of the lines m and n if they intersect at $E(0, -4)$.



- 4) Write the equation of the line k , if it cuts the x -axis at $V(-7, 0)$ and y -axis at $U(0, 9)$.



- 5) The slope of the hypotenuse is $\frac{1}{6}$ and it passes through the point $X(-8, 0)$. Find the equation of the hypotenuse.

