

Parallel and Perpendicular Lines Practice

Parallel Lines are have the _____ slope but different _____.

1. Find the equation of a line parallel to the line: $y = 2x + 4$, through the point $(4, -3)$.
2. Find the equation of a line parallel to the line: $y = 3/4x - 12$, through the point $(8, 5)$.
3. Find the equation of a line parallel to the line: $-3x + y = 9$, through the point $(4, 6)$
4. Find the equation of a line parallel to the line: $4x + 2y = -12$, through the point $(-6, 2)$

Perpendicular Lines are lines that have the slopes that are _____.

5. Find the equation of a line perpendicular to the line: $y = 3x + 5$, through the point $(4, -3)$.
6. Find the equation of a line parallel to the line: $y = 1/2x - 12$, through the point $(-8, 6)$.
7. Find the equation of a line parallel to the line: $-6x + 3y = 9$, through the point $(6, -2)$
8. Find the equation of a line parallel to the line: $5x + y = 10$, through the point $(-6, 2)$