

Perpendicular means where the two lines intersect, makes a 90° angle. The equation of the line perpendicular to y= 3x+5 through the point (5,4) m=opposite sign (+) and the reciprocal 1 $SO m = \frac{1}{3}$ using point slope form y-4=-1/(x-5)C1055 11: ply y-4=-1x-5(-1)y=-1 x + 17 -Parallel mean the lines never intersect, so they have the same slope The equation of the line parallel to y=5x+2 through the point (3,2) 50 m=5 using point slope form y-2 = 5(x-3) y-2 = 5x - 15 y = 5x - 13 y = 5x - 13* If you are given an equation that is not in slope intercept form you must solve for y. 2x + 3y = 1 -2x Subtract 2x from both sides 3y = -2x + 1 Keep the terms in proper order 3 3 divide by 3