

$y = -\frac{1}{2}x + 5$  — y-intercept  
 slope =  $\frac{\text{Rise}}{\text{Run}}$   
 / puff puff positive  
 \ — nice nice negative

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Slope of a parallel line  
 for:  
 i)  $y = -\frac{4}{3}x - 2$   $m = -\frac{4}{3}$   
 ii)  $y = \frac{5}{4}x - 2$   $m = \frac{5}{4}$   
 Perpendicular line:  
 i)  $y = -\frac{4}{3}x - 2$   $m = \frac{3}{4}$   
 ii)  $y = \frac{5}{4}x - 2$   $m = -\frac{4}{5}$   
 $y = -\frac{4}{5}x - 5$

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$6x - 4y - 3 = 0$   
 y-int:  $x = 0$   
 $-4y - 3 = 0$   
 $-4y - 3 = 0 + 3$   
 $-4y = 3$   
 $y = -\frac{3}{4}$   
 x-int:  $y = 0$   
 $6x - 4(0) - 3 = 0$   
 $6x - 3 = 0 + 3$   
 $6x = 3$   
 $x = \frac{1}{2}$

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$6x - 4y - 3 = 0$   $y = mx + b$   
 $6x - 4y = 3$   
 $-4y = -6x + 3$   
 $y = \frac{-6x + 3}{-4}$   
 $y = \frac{3}{2}x - \frac{3}{4}$

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