



## QT Parallel lines

1. Write down the equation of a line parallel to  $y = 4x + 4$
  
2. Write down the equation of a line parallel to  $y = 4x + 4$  which passes through  $(0, -4)$
  
3. Find the equation of a line parallel to  $4y - 2x + 6 = 0$
  
4. Find the equation of a line parallel to  $4y - 2x + 6 = 0$  which passes through  $(0, 3)$
  
5. Find the equation of a line parallel to  $2y - 3x + 5 = 0$  which passes through  $(0, -4)$



6. Line A passes through the points (4,3) and (8,6). Find the equation of the line parallel to line A that passes through (8,12)

7. Line A passes through the points (1,1) and (4,7)  
Line B passes through the points (4,7) and (6, 11)  
Determine whether Line A and line B are parallel.

8. Line A passes through the points (1,2) and (4,6)  
Line B passes through the points (4,7) and (k, 14)  
Line A and B are parallel.  
Find the value of k.