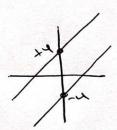


## QT Parallel lines

Light some sudject

1. Write down the equation of a line parallel to y = 4x + 4

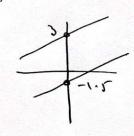
2. Write down the equation of a line parallel to y = 4x + 4 which passes through (0, -4)



3. Find the equation of a line parallel to 4y - 2x + 6 = 0

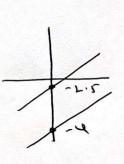
$$J = \frac{2x - 6}{2} = \frac{2x - 6}{3}$$

Parallel  $y = \frac{2x-6}{4} = \frac{2x-6}{4} = \frac{2x-6}{4}$ 4. Find the equation of a line parallel to 4y-2x+6=0 which passes through (0,3)



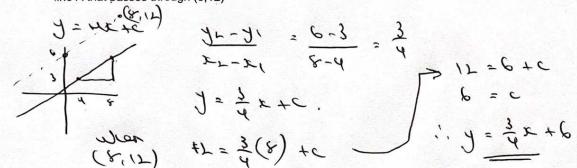
5. Find the equation of a line parallel to 2y - 3x + 5 = 0 which passes through (0, -4)

$$3 = \frac{7}{3^{2}-1} = \frac{7}{3^{2}} - \frac{7}{1}$$





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 (1,2) and (4,6) Line B passes through the points (4,7) and (6, 11) Determine whether Line A and line B are parallel.

$$\frac{1}{4} = \frac{1}{1} - \frac{1}{1} = \frac{1}{3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

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$$\frac{1}{3} = \frac{1}{3} = \frac{1}$$

8. Line A passes through the points (4,7) 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.

Like A 
$$\frac{J_{1}-J_{1}}{x_{2}-x_{1}} = \frac{7-1}{3} = \frac{6}{3} = 2$$
.

Like B  $\frac{J_{1}-J_{1}}{x_{2}-x_{1}} = \lambda$   $7 = 2(k-4)$ 
 $7 = 2k-4$ 
 $\frac{(4-7)}{k-4} = \lambda$ 
 $\frac{(4-7)}{k-4} = \lambda$ 
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