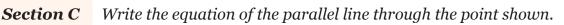
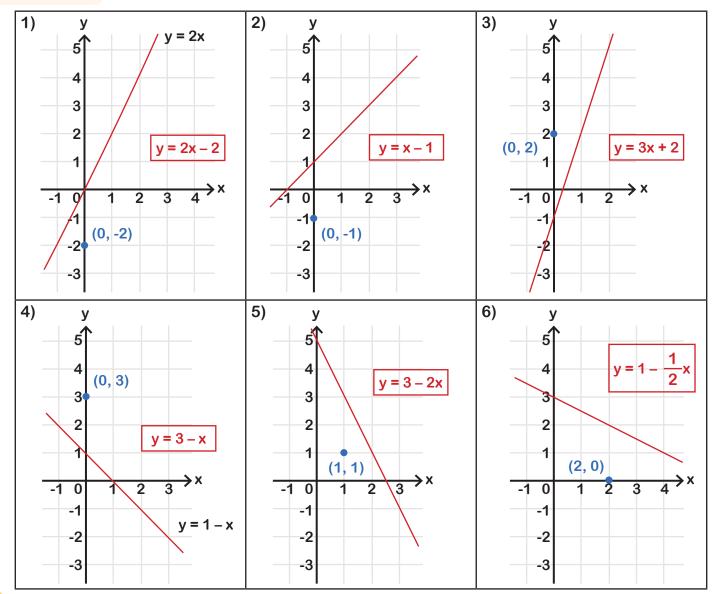
## **Equations of Parallel Lines** ANSWERS cazoom **Section A** Write down the pairs of parallel lines from the equations below. 3) $y = \frac{1}{2}x + 4$ 4) x - 2y = 82) y = 2 - 3x1) y = 2x - 17) 3x + y = 5 8) 6y = 2x - 96) 5y – 10x = 7 5) 3y - x = 11 and 6 2 and 7 3 and 4 5 and 8 Section B Write the equation of the parallel line through the point given. 1) Parallel to y = x through (0,2) 2) Parallel to y = 2x through (0,-3) y = 2x - 3y = x + 24) Parallel to y = -3x through (0,-2)

3) Parallel to y = 5x through (0,1)

y = 5x + 1



y = -3x - 2



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## Equations of Parallel Lines ANSWERS

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**Section D** Find the equation of the parallel line through the given point.

1) Parallel to y = x - 5, through (2,3)2) Parallel to y = 2x - 4, through (1,3)y = x + 1y = 2x + 13) Parallel to  $y = \frac{1}{2}x + 2$ , through (4,1)4) Parallel to 2x + 3y = 4, through (2,1) $y = \frac{1}{2}x - 1$ 2x + 3y = 7

**Section E** Find the line parallel to the line through the given points.

1) Goes through (0,0) and parallel to the line through (0,4) and (1,7)y = 3x2) Goes through (0,0) and parallel to the line through (0,3) and (1,5)y = 2x3) Goes through (0,1) and parallel to the line through (0,-1) and (1,3)y = 4x + 14) Goes through (0,-2) and parallel to the line through (0,2) and (1,-1)y = -3x - 2

**Section F** Find the line that goes through C which is parallel to the line through A and B.

