Equations of Parallel Lines

Section A *Write down the pairs of parallel lines from the equations below.*

1) $y = 2x - 1$ 2) $y = 2 - 3x$ 3) $y = \dfrac{1}{2}x + 4$ 4) $x - 2y = 8$

5) $3y - x = 1$ 6) $5y - 10x = 7$ 7) $3x + y = 5$ 8) $6y = 2x - 9$

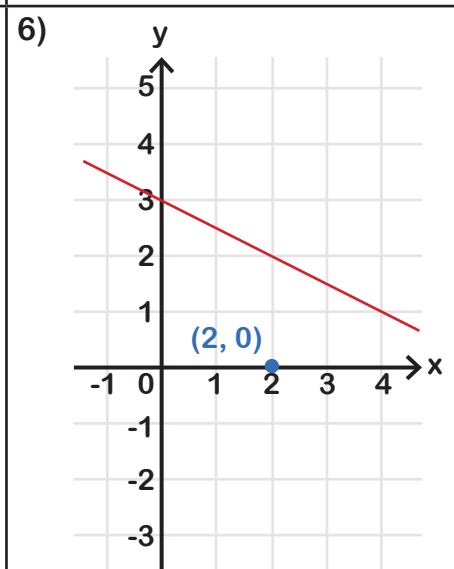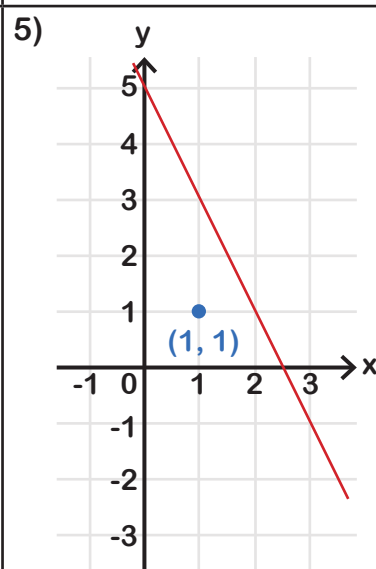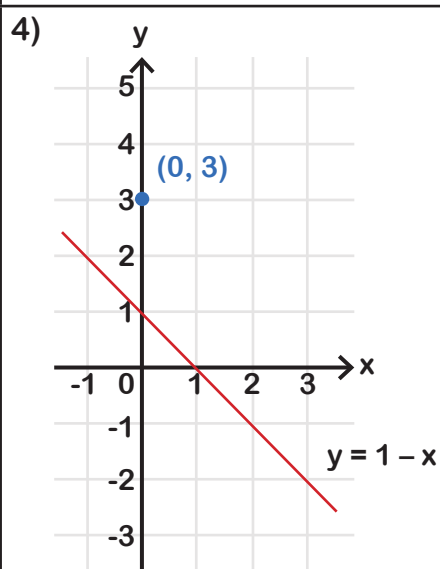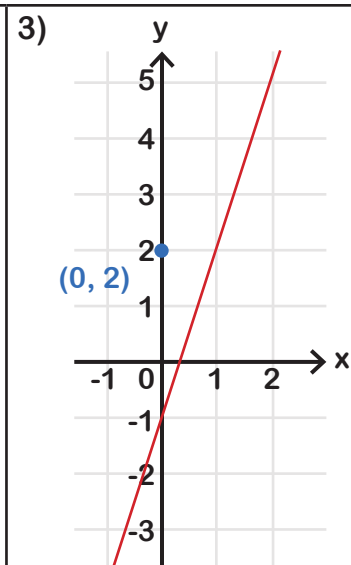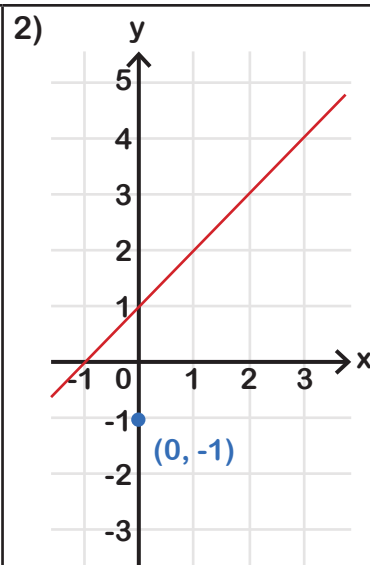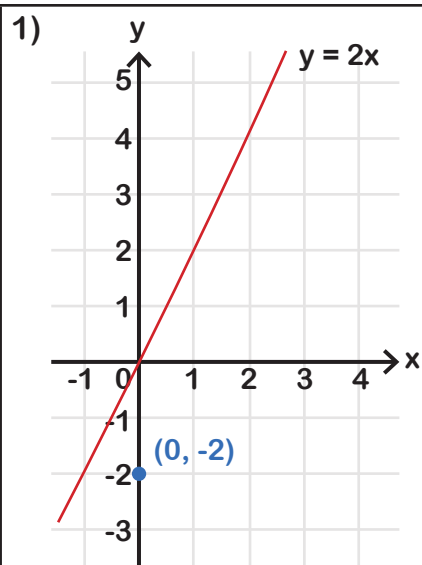**Section B** *Write the equation of the parallel line through the point given.*

1) Parallel to $y = x$ through $(0,2)$ 2) Parallel to $y = 2x$ through $(0,-3)$

3) Parallel to $y = 5x$ through $(0,1)$ 4) Parallel to $y = -3x$ through $(0,-2)$

Section C *Write the equation of the parallel line through the point shown.*

Equations of Parallel Lines

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)

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

4) Parallel to $2x + 3y = 4$, through (2,1)

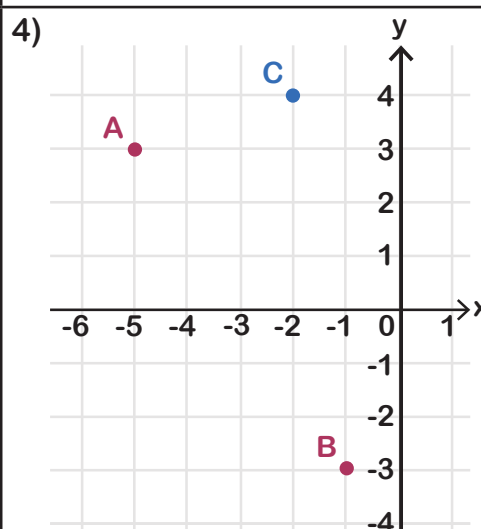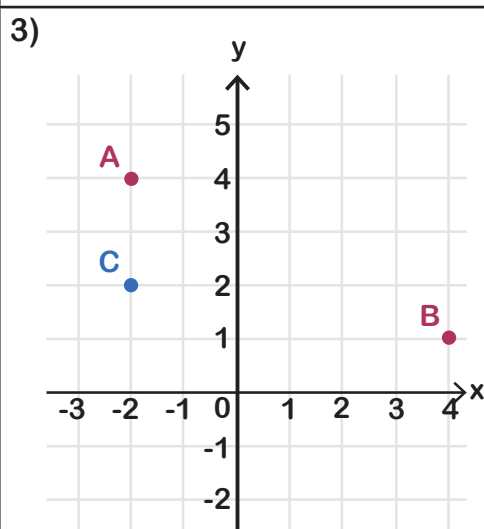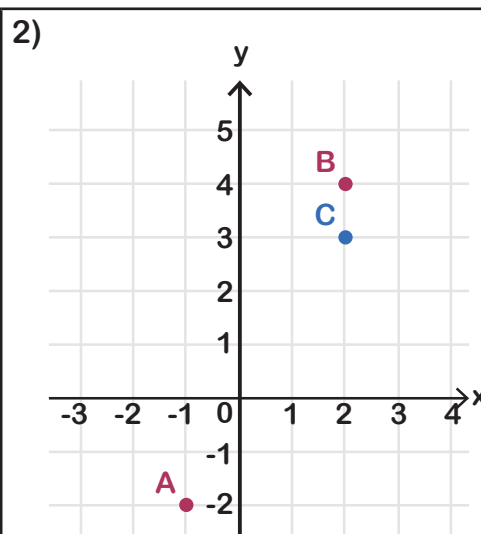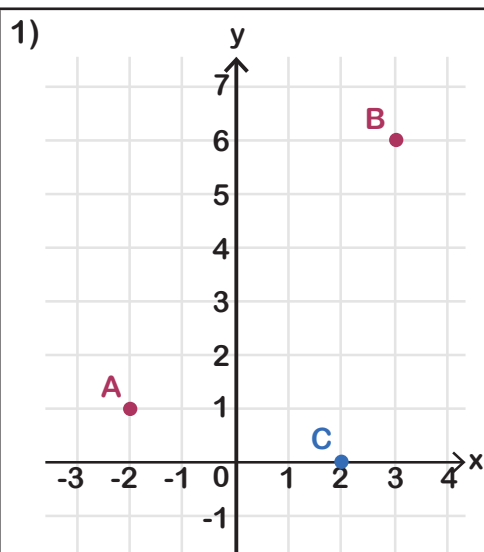**Section E**   *Find the line parallel to the line through the given points.*

1) Goes through (0,0) and parallel to the line through (0,4) and (1,7)   _____

2) Goes through (0,0) and parallel to the line through (0,3) and (1,5)   _____

3) Goes through (0,1) and parallel to the line through (0,-1) and (1,3)   _____

4) Goes through (0,-2) and parallel to the line through (0,2) and (1,-1)   _____

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

1)

2)

EXTENSION:
Prove that the line passing through the points (-13, -4) and (12, 6) is parallel to the line $2x - 5y = 9$

3)

4)

ANSWER:

Algebra: Expressions, Equations,
and Functions - Linear Functions

HSA-CED.A.2