

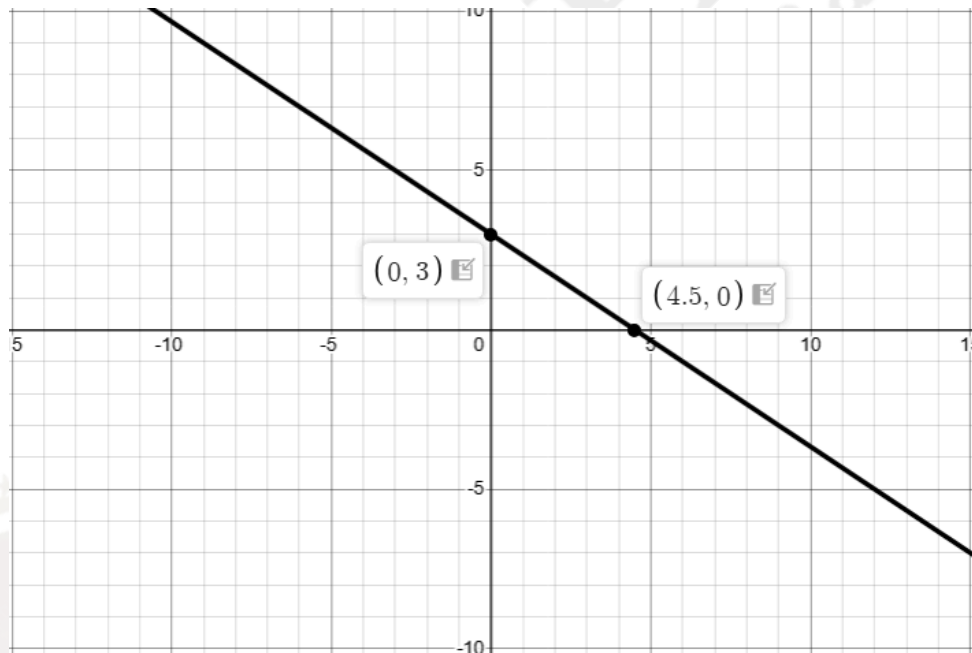
# Class 10 Mathematics - Pair of Linear Equations in Two Variables

Name: \_\_\_\_\_

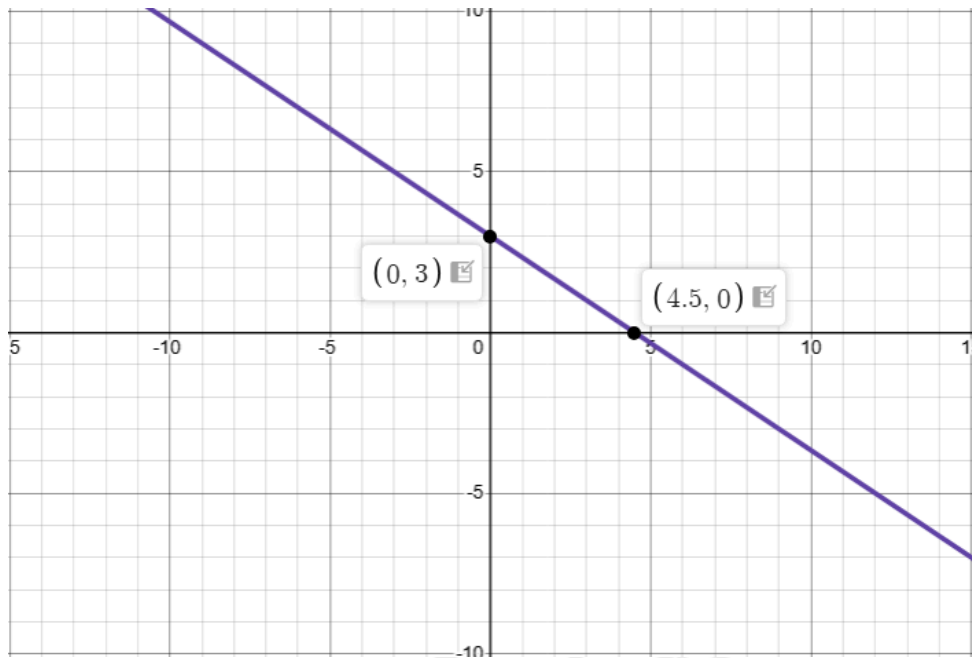
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## Medium Worksheet 2

$$2x + 3y - 9 = 0$$



$$4x + 6y - 18 = 0$$



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## Questions

1. What do you observe about the two lines?
2. How many common points do the lines have?
3. How many solutions does the pair possess?
4. Is the pair dependent or independent?
5. Is the pair consistent or inconsistent?
6. State the relationship among  $a_1/a_2$ ,  $b_1/b_2$  and  $c_1/c_2$ .

## Answer Key

1. The lines coincide.
2. Infinitely many.
3. Infinitely many.
4. Dependent.

5. Consistent.

6.  $a_1/a_2 = b_1/b_2 = c_1/c_2$

