

Linear equations in 2 variables

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This is Problem-2.3 from Exercise 3.2

1. On comparing the ratios $\frac{a_1}{a_2}$, $\frac{b_1}{b_2}$, $\frac{c_1}{c_2}$, find out whether the lines representing the following pairs of linear equations intersect at a point, are parallel or coincident:

$$9x + 3y + 12 = 0 \tag{1}$$

$$18x + 6y + 24 = 0 \tag{2}$$