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## **12.** In each of the following cases:

- 1. indicate the relative position of lines l and l' and justify your answer.
- 2. draw the lines l and l'.

a) 
$$l: 2x - 4y + 6 = 0$$

$$l': 3x - 6y + 9 = 0$$

**b)** 
$$l: 2x + 3y - 6 = 0$$

$$l': 3x + 4.5y + 9 = 0$$

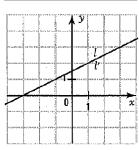
c) 
$$l: 2x + 3y - 3 = 0$$

$$l': 3x - 2y + 6 = 0$$

They are coincident

$$\frac{2}{3} = \frac{-4}{-6} = \frac{6}{9}$$

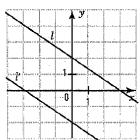
2.



They are distinct parallel

$$\frac{2}{3} = \frac{3}{4.5} \neq \frac{-6}{9}$$

2.



They are intersecting

1. 
$$\frac{\frac{2}{3}}{\frac{3}{2}} \neq \frac{\frac{3}{-2}}{-2}$$

2.

