

MATH2 (814012) – SPRING 2006

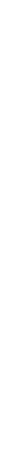
WORKSHEET 10

QUESTION (1): Solve the following system by three methods (graphing, substitution and addition). Then determine whether the equations are independent, dependent or inconsistent.

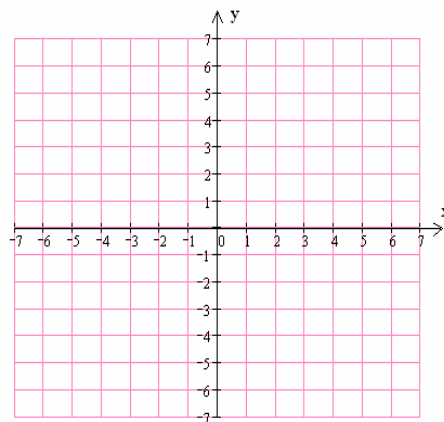
$$3x + 2y = 12$$

$$4x - 3y = -1$$

By substitution:



By graphing



By addition:

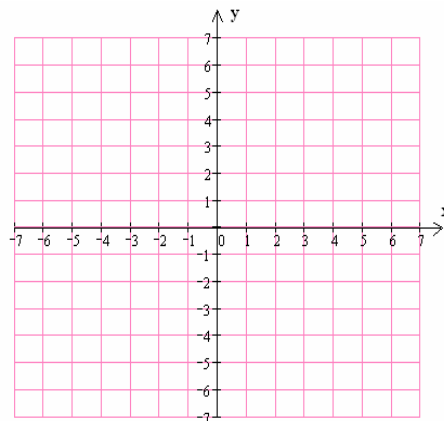
QUESTION (2): Solve the following system by three methods (graphing, substitution and addition). Then determine whether the equations are independent, dependent or inconsistent.

$$y = -\frac{2}{3}x - 3$$

$$x = -\frac{3}{2}y = 9$$

By substitution:

By graphing



By addition: