STANDARD II: The student will be able to solve equations and inequalities.

TIPS: Use EBA or EBS - Elimination by Addition or Substitution.

EBA ==> 2 choices, get rid of x or y: multiply 0, 1, or 2 equations to get equal & opposite x or y coefficients. Add the two equations together. Best if x, y , and numbers are already lined up.
EBS ==> 4 choices, get one of the x's or one of the y's "by itself" then substitute into the other equation. Best if one of the variables is already by itself.

OBJECTIVE

3. Solve systems of two linear equations.

ELIGIBLE CONTENT

- Solving for the values of both x and y may be required.
- The options may be four graphs with lines plotted and the intersection point labeled with its ordered pair.

"the" solution is the (x, y) pair where the 2 lines cross.

SAMPLE ITEMS

1 What is the solution of the following system of linear equations?

$$4x + 3y = 5$$
$$-3x - 6y = 0$$

A $(-1, 2)$

B $(1, -2)$

C $(2, -1)$

D $(2, 1)$

2 What is the solution of the following system of linear equations?

$$y = 3x$$
$$2x + y = 15$$

A $(0, 15)$

B $(3, 9)$

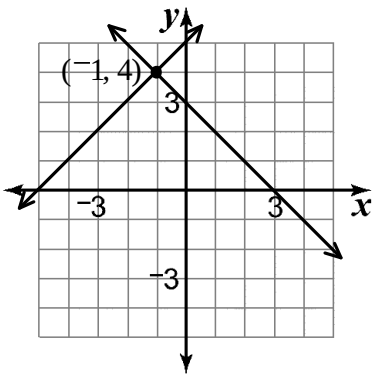
C $(5, 5)$

D $(15, 45)$

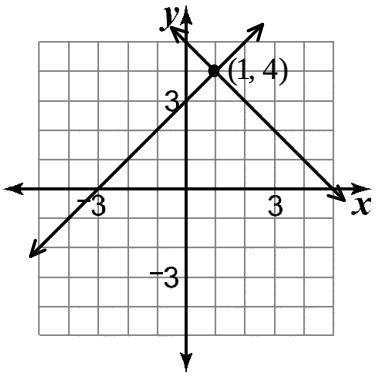
3 Which of these graphs could be used to find the solution for the following system of equations?

$x + y = 3$
$y = x + 5$

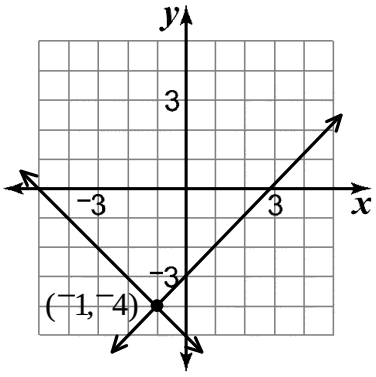
A



B



C



D