EduSahara™ Learning Center Assignment

Grade : Class X, CBSE
Chapter : Pair of Linear Equations in Two Variables
Name : Pair of Linear Equations in Two Variables

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1. Solve
$$(6x - 6y + 30) = 0$$
$$(2x - y + 9) = 0$$

(i) (-4 , 1) (ii) (-4 , 0) (iii) (-2 , 1) (iv) (-4 , -1) (v) (-3 , 1)

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2. Solve
$$(-3x - 2y - 5) = 0$$
$$(-5x + 2y + 5) = 0$$

(i) (1 , -3) (ii) (3 , -3) (iii) (3 , $(\frac{-7}{2})$)

(iv) (0 , $(\frac{-5}{2})$) (v) (1 , $(\frac{-5}{2})$)

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3. Solve
$$(4x - 2y - 3) = 3$$
$$(2x - 3y + 5) = 4$$

(i) ($\frac{9}{4}$, 1) (ii) ($\frac{9}{4}$, 2) (iii) ($\frac{7}{2}$, -1)

(iv) ($\frac{7}{2}$, 1) (v) ($\frac{5}{2}$, 2)

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4. Solve
$$(5x + 3y - 2) = (-4x + 2y)$$
$$(-x + 3y - 3) = (5x + 5y + 1)$$

(i) ($\frac{2}{5}$, -4) (ii) ($\frac{2}{5}$, -5) (iii) ($\frac{2}{3}$, -4)

(iv) ($\frac{4}{3}$, -5) (v) ($\frac{4}{3}$, -6)

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5. Solve
$$(-15x - 4y + 103) = 0$$
$$(-16x + 4y + 52) = 0$$

(i) (5 , 6) (ii) (5 , 4) (iii) (8 , 7) (iv) (6 , 7) (v) (5 , 7)

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6. Solve
$$(4x + y + 4) = 0$$
$$(-4x + 5y) = 0$$

(i) ($(\frac{-1}{2})$, $(\frac{-4}{3})$) (ii) ($(\frac{-5}{8})$, -2) (iii) ($(\frac{-5}{8})$, $(\frac{-2}{3})$)

(iv) ($(\frac{-1}{2})$, -2) (v) ($(\frac{-5}{6})$, $(\frac{-2}{3})$)

2 0 3

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7. Solve
$$(-3x + 2y - 3) = 4$$
$$(-3x - 2y - 2) = 5$$

(i) $(\frac{-5}{3}, -1)$ (ii) $(\frac{-7}{3}, 0)$ (iii) $(\frac{-5}{3}, -2)$

(iv) $(\frac{-11}{5}, -1)$ (v) $(\frac{-11}{5}, 0)$

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8. Solve
$$(-5x + 2y + 2) = (4x - 2y - 3)$$
$$(2x + 3y + 5) = (x + 2y - 1)$$

(i) $(\frac{-19}{13}, \frac{-59}{13})$ (ii) $(\frac{-7}{5}, \frac{-59}{13})$ (iii) $(\frac{-7}{5}, \frac{-51}{11})$

(iv) $(\frac{-17}{13}, \frac{-61}{13})$ (v) $(\frac{-17}{13}, \frac{-51}{11})$

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9. Solve
$$(-5x - y + 13) = 0$$
$$(-15x + 3y - 9) = 0$$

(i) (1, 7) (ii) (2, 8) (iii) (1, 5) (iv) (4, 8) (v) (1, 8)

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10. Solve
$$(3x + 3y + 2) = 0$$
$$(5x - 3y + 1) = 0$$

(i) $(\frac{-1}{8}, \frac{-3}{8})$ (ii) $(\frac{-3}{8}, \frac{-7}{24})$ (iii) $(\frac{-3}{10}, \frac{-7}{22})$

(iv) $(\frac{-3}{10}, \frac{-7}{24})$ (v) $(\frac{-1}{8}, \frac{-7}{22})$

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11. Solve
$$(2x - 4y - 1) = 4$$
$$(5x - 2y - 1) = 2$$

(i) $(\frac{1}{8}, \frac{-19}{16})$ (ii) $(\frac{3}{8}, \frac{-17}{14})$ (iii) $(\frac{1}{10}, \frac{-17}{14})$

(iv) $(\frac{3}{8}, \frac{-21}{16})$ (v) $(\frac{1}{10}, \frac{-19}{16})$

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12. Solve
$$(-4x - 4y - 1) = (-x - 2y - 1)$$
$$(-3x - 2y - 3) = (3x + 4y - 1)$$

(i) $(\frac{4}{3}, -4)$ (ii) $(\frac{2}{5}, -2)$ (iii) $(\frac{2}{5}, -1)$

(iv) $(\frac{4}{3}, -2)$ (v) $(\frac{2}{3}, -1)$

Assignment Key

1) (i)
2) (iv)
3) (v)
4) (iii)
5) (v)
6) (v)
7) (ii)
8) (i)
9) (v)
10) (ii)
11) (i)
12) (v)