

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Linear Equations and Simultaneous Linear Equations****Name : Equivalence of Linear Equations**

1. Which of the following equations is the same as $(-3x - 2) = 0$

(i) $(-3x - 1) = 5$ (ii) $(-3x + 3) = 5$ (iii) $(-3x + 3) = 7$

(iv) $(-3x + 3) = 3$ (v) $(-3x + 7) = 5$

2. Which of the following equations is the same as $(8x - 8) = 0$

(i) $(8x - 12) = (-7)$ (ii) $(8x - 12) = (-4)$ (iii) $(8x - 12) = (-1)$

(iv) $(8x - 7) = (-4)$ (v) $(8x - 17) = (-4)$

3. Which of the following equations is the same as $(-7x + 2) = 0$

(i) $(-28x + 10) = 0$ (ii) $(-28x + 8) = (-4)$ (iii) $(-28x + 8) = 4$

(iv) $(-28x + 6) = 0$ (v) $(-28x + 8) = 0$

4. Which of the following equations is the same as $(5x + 3) = (-4)$

(i) $(5x + 8) = (-1)$ (ii) $(5x + 8) = 1$ (iii) $(5x + 8) = 3$

(iv) $(5x + 11) = 1$ (v) $(5x + 5) = 1$

5. Which of the following equations is the same as $(-3x + 3) = (-7)$

(i) $(-3x) = (-14)$ (ii) $(-3x) = (-10)$ (iii) $(-3x - 2) = (-10)$

(iv) $(-3x + 2) = (-10)$ (v) $(-3x) = (-6)$

6. Which of the following equations is the same as $(3x + 3) = 1$

(i) $(-15x - 15) = (-8)$ (ii) $(-15x - 13) = (-5)$ (iii) $(-15x - 17) = (-5)$

(iv) $(-15x - 15) = (-5)$ (v) $(-15x - 15) = (-2)$

7. Which of the following equations is the same as $(-x + 1) = (-7x - 6)$

(i) $(-x + 6) = (-7x - 1)$ (ii) $(-x + 4) = (-7x - 1)$ (iii) $(-x + 6) = (-7x - 5)$

(iv) $(-x + 8) = (-7x - 1)$ (v) $(-x + 6) = (-7x + 3)$

8. Which of the following equations is the same as $(8x + 9) = (x + 6)$

- (i) $(8x + 5) = (x + 5)$ (ii) $(8x + 8) = (x + 9)$ (iii) $(8x + 8) = (x + 5)$
(iv) $(8x + 8) = (x + 1)$ (v) $(8x + 11) = (x + 5)$
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9. Which of the following equations is the same as $(6x + 5) = (-8x)$

- (i) $(-12x - 11) = 16x$ (ii) $(-12x - 10) = (16x - 3)$ (iii) $(-12x - 10) = (16x + 3)$
(iv) $(-12x - 9) = 16x$ (v) $(-12x - 10) = 16x$
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10. Which of the following equations is not the same as $(-6x - 9) = 0$

- (i) $(-6x - 11) = (-2)$ (ii) $(-6x - 6) = (-3)$ (iii) $(-6x - 5) = 4$
(iv) $(-6x - 13) = (-4)$ (v) $(-6x - 7) = 2$
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11. Which of the following equations is not the same as $(-9x - 7) = 0$

- (i) $(-9x - 11) = 4$ (ii) $(-9x - 12) = (-5)$ (iii) $(-9x - 2) = 5$
(iv) $(-9x - 8) = (-1)$ (v) $(-9x - 6) = 1$
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12. Which of the following equations is not the same as $(x + 8) = 0$

- (i) $(-x - 8) = 0$ (ii) $(5x + 40) = 0$ (iii) $(-2x - 16) = 0$
(iv) $(-5x - 40) = (-5)$ (v) $(3x + 24) = 0$
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13. Which of the following equations is not the same as $(-x + 7) = (-4)$

- (i) $(-x + 3) = (-8)$ (ii) $(-x + 4) = (-7)$ (iii) $(-x + 11) = 0$
(iv) $(-x + 12) = (-9)$ (v) $(-x + 10) = (-1)$
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14. Which of the following equations is not the same as $(7x + 6) = 3$

- (i) $(7x + 5) = 2$ (ii) $(7x + 4) = 5$ (iii) $(7x + 9) = 6$
(iv) $(7x + 7) = 4$ (v) $(7x + 3) = 0$
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15. Which of the following equations is not the same as $(5x - 2) = 8$

- (i) $(-15x + 6) = (-24)$ (ii) $(-25x + 10) = (-40)$ (iii) $(-10x + 4) = (-16)$

(iv) $(-20x + 8) = (-32)$ (v) $(20x - 8) = 12$

16. Which of the following equations is not the same as $(7x - 8) = (-6x + 9)$

(i) $(7x - 9) = (-6x + 8)$ (ii) $(7x - 12) = (-6x + 5)$ (iii) $(7x - 7) = (-6x + 10)$

(iv) $(7x - 6) = (-6x + 7)$ (v) $(7x - 4) = (-6x + 13)$

17. Which of the following equations is not the same as $(x + 6) = (-3x - 3)$

(i) $(x + 2) = (-3x + 1)$ (ii) $(x + 11) = (-3x + 2)$ (iii) $(x + 1) = (-3x - 8)$

(iv) $(x + 3) = (-3x - 6)$ (v) $(x + 9) = (-3x)$

18. Which of the following equations is not the same as $(6x + 8) = (8x - 4)$

(i) $(-18x - 24) = (8x - 7)$ (ii) $(24x + 32) = (32x - 16)$ (iii) $(-24x - 32) = (-32x + 16)$

(iv) $(-30x - 40) = (-40x + 20)$ (v) $(30x + 40) = (40x - 20)$

19. Which of the following equations is the same as $(8x - 4) = 0$

(i) $(9x - 6) = (x - 2)$ (ii) $(11x - 6) = (-3x + 2)$ (iii) $(7x - 2) = (x - 2)$

(iv) $(5x - 2) = (3x - 2)$ (v) $(9x - 6) = (-x + 2)$

20. Which of the following equations is the same as $(5x + 2) = 0$

(i) $(x - 7) = (4x + 9)$ (ii) $(9x + 11) = (4x + 9)$ (iii) $(6x + 2) = (-x)$

(iv) $(4x + 2) = x$ (v) $(9x + 11) = (-4x - 9)$

21. Which of the following equations is the same as $(5x + 2) = 0$

(i) $(9x + 1) = (-4x + 1)$ (ii) $(x + 3) = (4x - 1)$ (iii) $(x + 3) = (-4x + 1)$

(iv) $(10x - 1) = (-5x + 3)$ (v) $5 = (5x - 3)$

22. Which of the following equations is the same as $(-9x - 5) = 4$

(i) $(-2x - 7) = (7x + 2)$ (ii) $(-10x - 5) = (x + 4)$ (iii) $(-8x - 5) = (-x + 4)$

(iv) $(-16x - 3) = (7x + 2)$ (v) $(-2x - 7) = (-7x + 6)$

23. Which of the following equations is the same as $(-6x + 7) = (4x - 4)$

- (i) $(-5x + 7) = (5x - 4)$ (ii) $(-7x + 7) = (5x - 4)$ (iii) $(-5x + 7) = (3x - 4)$
 (iv) $(-4x + 6) = (2x - 3)$ (v) $(-8x + 8) = (6x - 5)$
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24. Which of the following equations is the same as $(x - 8) = (3x - 4)$

- (i) $(9x - 15) = (-5x + 3)$ (ii) $(-7x - 1) = (11x - 11)$ (iii) $(-9) = (4x - 3)$
 (iv) $(2x - 7) = (2x - 5)$ (v) $(-7x - 1) = (-5x + 3)$
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25. Which of the following equations is not the same as $(8x + 4) = 0$

- (i) $(13x - 2) = (-5x + 6)$ (ii) $(9x + 4) = x$ (iii) $(13x - 2) = (5x - 6)$
 (iv) $(7x + 4) = (-x)$ (v) $(3x + 10) = (-5x + 6)$
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26. Which of the following equations is not the same as $(-3x - 5) = 0$

- (i) $(-3) = (3x + 2)$ (ii) $(-6x - 7) = (-3x - 2)$ (iii) $(-2x - 7) = (x - 2)$
 (iv) $(-4x - 3) = (-x + 2)$ (v) $(-4x - 3) = (x - 2)$
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27. Which of the following equations is not the same as $(-5x + 3) = (-3)$

- (i) $(-7x) = (-2x - 6)$ (ii) $(-13x + 8) = (-8x + 2)$ (iii) $(3x - 2) = (8x - 8)$
 (iv) $(-3x + 6) = 2x$ (v) $(3x - 2) = (-8x + 2)$
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28. Which of the following equations is not the same as $(4x - 9) = 8$

- (i) $(12x - 18) = (8x - 1)$ (ii) $(3x - 7) = (-x + 10)$ (iii) $(5x - 11) = (x + 6)$
 (iv) $(12x - 18) = (-8x + 17)$ (v) $(-4x) = (-8x + 17)$
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29. Which of the following equations is not the same as $(-x - 3) = (x + 2)$

- (i) $(-2x - 4) = 1$ (ii) $(-4x - 8) = (-2x - 3)$ (iii) $(2x + 2) = (4x + 7)$
 (iv) $(-2) = (2x + 3)$ (v) $(-2x - 4) = (2x + 3)$
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30. Which of the following equations is not the same as $(-4x + 6) = (-x - 3)$

- (i) $(-3x + 9) = 0$ (ii) $(-3x - 3) = (-12)$ (iii) $(-5x + 3) = 0$
 (iv) $(-5x + 3) = (-2x - 6)$ (v) $(-5x + 15) = (-2x + 6)$
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31. Which of the following equations is equivalent to $(6x - 1) = 0$

(i) $6x = 6$ (ii) $6x = 1$ (iii) $6x = (-1)$

(iv) $6x = (-4)$ (v) $6x = 3$

32. Which of the following equations is equivalent to $(-9x + 9) = 2$

(i) $(-9x) = (-7)$ (ii) $(-9x) = (-2)$ (iii) $(-9x) = (-12)$

(iv) $(-9x) = (-3)$ (v) $(-9x) = (-11)$

33. Which of the following equations is equivalent to $(7x + 8) = (9x + 5)$

(i) $(-2x) = (-3)$ (ii) $(-2x) = (-2)$ (iii) $(-2x) = (-4)$

(iv) $(-2x) = 2$ (v) $(-2x) = (-8)$

34. Which of the following equations is not equivalent to $(5x + 2) = 0$

(i) $25x = (-10)$ (ii) $(-15x) = 6$ (iii) $20x = (-8)$

(iv) $(-20x) = 8$ (v) $5x = (-1)$

35. Which of the following equations is not equivalent to $(-5x + 7) = 2$

(i) $25x = 25$ (ii) $(-15x) = (-15)$ (iii) $(-5x) = (-1)$

(iv) $(-10x) = (-10)$ (v) $(-25x) = (-25)$

36. Which of the following equations is not equivalent to $(5x - 6) = (-4x - 3)$

(i) $18x = 6$ (ii) $(-18x) = (-6)$ (iii) $9x = (-1)$

(iv) $(-27x) = (-9)$ (v) $27x = 9$

Assignment Key

- 1) (ii)
- 2) (ii)
- 3) (v)
- 4) (ii)
- 5) (ii)
- 6) (iv)
- 7) (i)
- 8) (iii)
- 9) (v)
- 10) (ii)
- 11) (i)
- 12) (iv)
- 13) (iv)
- 14) (ii)
- 15) (v)
- 16) (iv)
- 17) (i)
- 18) (i)
- 19) (i)
- 20) (ii)
- 21) (iii)
- 22) (i)
- 23) (i)
- 24) (v)
- 25) (i)
- 26) (v)
- 27) (v)
- 28) (iv)
- 29) (v)
- 30) (iii)
- 31) (ii)
- 32) (i)
- 33) (i)
- 34) (v)
- 35) (iii)
- 36) (iii)