Name : _____

Linear Equation

Sheet 1

Determine whether the ordered pair is a solution of the linear equation.

1) $3x + 2y = 16$; $\left(\frac{2}{3}, 7\right)$

_____

2) $-y = -11x + 4$; $(0, -4)$

_____

3) $x = y + \frac{1}{2}$; $(-5, -2)$

_____

4) $-9 - 5y = 4x$; $(-6, 3)$

_____

5) $7x - y = 0$; $\left(\frac{6}{7}, -\frac{1}{4}\right)$

_____

6) $1.2x + 4.6 = 4.1y$; $(3, 2)$

_____

7) $-6y = 8x$; $(7, 8.3)$

_____

8) $-13y - 14x = -15$; $(-1, 6)$

_____

9) $10 = -12y + 2x$; $(5, 0)$

_____

10) $9y + 2x - 3 = 0$; $(-1.2, -3.1)$

_____

Name : _____

Answer key

Linear Equation

Sheet 1

Determine whether the ordered pair is a solution of the linear equation.

1) $3x + 2y = 16$; $\left(\frac{2}{3}, 7\right)$

Yes

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5) $7x - y = 0$; $\left(\frac{6}{7}, -\frac{1}{4}\right)$

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Yes

7) $-6y = 8x$; $(7, 8.3)$

No

8) $-13y - 14x = -15$; $(-1, 6)$

No

9) $10 = -12y + 2x$; $(5, 0)$

Yes

10) $9y + 2x - 3 = 0$; $(-1.2, -3.1)$

No

Name : _____

Linear Equation

Sheet 2

Determine whether the ordered pair is a solution of the linear equation.

1) $-5x = -17 - y$; $(-4, -5)$

2) $-\frac{3}{7} = 2.1y + 0.3x$; $(0, -0.3)$

3) $y = \frac{2}{3}x - 1$; (x ; $\left(0.8, -\frac{1}{2}\right)$

5) $y - 8 = 4x$; (16 ; $(2.2, 3.5)$

7) $-6x - 10 = 12$ $(2, -7)$

9) $9x + 4y + 5 = 0$; $(-1, 1)$

10) $1 = y - x$; $(11, 12)$

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Name : _____ **Answer key**

Linear Equation

Sheet 2

Determine whether the ordered pair is a solution of the linear equation.

1) $-5x = -17 - y$; $(-4, -5)$

No

2) $-\frac{3}{7} = 2.1y + 0.3x$; $(0, -0.3)$

No

3) $y = \frac{2}{3}x - 1$; (x ; $\left(0.8, -\frac{1}{2}\right)$

No

5) $y - 8 = 4x$; (16 ; $(2.2, 3.5)$

Yes

7) $-6x - 10 = 12$ $(2, -7)$

Yes

No

9) $9x + 4y + 5 = 0$; $(-1, 1)$

Yes

10) $1 = y - x$; $(11, 12)$

Yes

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Name : _____

Linear Equation

Sheet 3

Determine whether the ordered pair is a solution of the linear equation.

1) $\frac{3}{5}y + \frac{1}{2}x = 7.2$; (2.4, 10)

2) $x = -5 + 6y$; (–9, –3)

3) $2x + 5y = 1$; y ; (–2, 8)

5) $-6.1y = -8.2 -$; $\left(-\frac{1}{4}, \frac{1}{3}\right)$

7) $10x = 3.3y - 6$; (0, –5)

9) $21 + 13x = 15y$; $\left(-\frac{1}{6}, 0\right)$

10) $4x + 8y + 12 = 0$; (–1, –1)

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Name : _____

Answer key

Linear Equation

Sheet 3

Determine whether the ordered pair is a solution of the linear equation.

1) $\frac{3}{5}y + \frac{1}{2}x = 7.2$; (2.4, 10)

Yes

2) $x = -5 + 6y$; (−9, −3)

No

3) $2x + 5y = 1$; y ; (−2, 8)

Yes

5) $-6.1y = -8.2 -$; $\left(-\frac{1}{4}, \frac{1}{3}\right)$

Yes

7) $10x = 3.3y - 6$; (0, −5)

No

9) $21 + 13x = 15y$; $\left(-\frac{1}{6}, 0\right)$

No

10) $4x + 8y + 12 = 0$; (−1, −1)

Yes

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Name : _____

Linear Equation

Sheet 4

Determine whether the ordered pair is a solution of the linear equation.

1) $1.3y = -9 - 7.1x$; $(-2, 4)$

2) $\frac{4}{7}x + \frac{2}{5}y = \frac{3}{4}$; $\left(\frac{7}{8}, \frac{1}{3}\right)$

3) $-19 = -4x - 3$ … $-6)$

5) $0.7x + \frac{5}{9}y = 0$ … ; $(7, 8)$

7) $-23 = 9x + 10$ … x ; $(-1, 2)$

9) $8x - 5y - 2 = 0$; $(0, 9)$

10) $-12 + 3x = 2y$; $(-4, -7)$

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Name : _____

Answer key

Linear Equation

Sheet 4

Determine whether the ordered pair is a solution of the linear equation.

1) $1.3y = -9 - 7.1x$; $(-2, 4)$

Yes

2) $\frac{4}{7}x + \frac{2}{5}y = \frac{3}{4}$; $\left(\frac{7}{8}, \frac{1}{3}\right)$

No

3) $-19 = -4x - 3$ … $-6)$

Yes

5) $0.7x + \frac{5}{9}y = 0$ … ; $(7, 8)$

No

7) $-23 = 9x + 10$ … x ; $(-1, 2)$

Yes

9) $8x - 5y - 2 = 0$; $(0, 9)$

No

10) $-12 + 3x = 2y$; $(-4, -7)$

No

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Name : _____

Linear Equation

Sheet 5

Determine whether the ordered pair is a solution of the linear equation.

1) $7y + 3x - 11 = 0$; $(-7, 2)$

2) $-y = -5x - 8.4$; $(-1, 3.4)$

3) $-16x = 2y + 3$; $(-4, -8)$

5) $2 = \frac{1}{5}x + \frac{1}{2}y$; $(2.3, 1.3)$

7) $0.9y = 8 - 0.1x$; $\left(\frac{1}{3}, 4.5\right)$

9) $3.6 - y = -\frac{1}{3}x$; $(-1.8, 3)$

10) $x + y + 6 = -2$; $(1, -5)$

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Name : _____

Answer key

Linear Equation

Sheet 5

Determine whether the ordered pair is a solution of the linear equation.

1) $7y + 3x - 11 = 0$; $(-7, 2)$

No

2) $-y = -5x - 8.4$; $(-1, 3.4)$

Yes

3) $-16x = 2y + 3$; $(-4, -8)$

No

5) $2 = \frac{1}{5}x + \frac{1}{2}y$; x ; $(2.3, 1.3)$

No

7) $0.9y = 8 - 0.1x$; $\left(\frac{1}{3}, 4.5\right)$

No

Yes

9) $3.6 - y = -\frac{1}{3}x$; $(-1.8, 3)$

Yes

10) $x + y + 6 = -2$; $(1, -5)$

No

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