

hw-02-linear-equations

Due: 12/12/2015 at 06:00am EST.

Students will be able to:

- Solve Basic Linear Equations
- Solve Basic Rational Equations

Functions and symbols that WeBWorK understands.

Links to some useful WeBWorK pages for students

1. (1 pt) Solve the equation $-8 + 9r = -5r$.

$r =$ _____

2. (1 pt) Solve for x : $6x + 5 = 4$

Answer: $x =$ _____

3. (1 pt) Solve for x : $10(x + 4) = 5x + 5$

Answer: $x =$ _____

4. (1 pt) Solve the equation $6(b + 1) + 5 = -6(b - 4) - 7$.

$b =$ _____

Solution.

5. (1 pt) Solve the equation $\frac{7b + 4}{2b - 6} = \frac{7}{10}$.

$b =$ _____

Solution.

6. (1 pt) Solve the equation $\frac{5}{5 - a} = \frac{7}{a - 2}$.

$a =$ _____

Solution.

7. (1 pt) Solve the equation $\frac{2}{x} = \frac{3}{4x} + 5$.

$x =$ _____

Solution.

8. (1 pt) Solve the equation $\frac{x}{7x - 3} = \frac{3}{5}$.

$x =$ _____

Solution.

9. (1 pt) Solve the equation $4x - \frac{1}{2}(5 - 1x) = \frac{-1}{4}(x + 6)$.

$x =$ _____

10. (1 pt) Solve the equation $0.4(g - 9) = 0.9(g - 2)$.

$g =$ _____

11. (1 pt) Solve for k .

$$\frac{-1}{4}k + \frac{-8}{7} = 8 - \frac{-6}{5}k$$

$k =$ _____

12. (1 pt) Solve for x : $7(x + 3) = 4(x + 3) + 2$

Answer: $x =$ _____

13. (1 pt) Solve the equation for x

$$9(x - 38778869) + 2 = -3(x - 38778869) - 22$$

$x =$ _____

14. (1 pt) Find the perimeter and area of a rectangle with Length = 9 ft and Width = 13 ft.

Perimeter = _____ **units**

Area = _____ **units**

Find the perimeter and area of a square with Side = 4 ft.

Perimeter = _____ **units**

Area = _____ **units**

Find the circumference and area of a circle with Radius = 5 ft. (Round to 2 digits)

Circumference = _____ **units**

Area = _____ **units**

If the rectangle was a rectangular room in your home and the square was a square room in your home and you were going to carpet the room with the least area at a cost of 3 dollars per square foot, how much would you spend on buying the carpet (Round to 2 digits) _____