

WeBWorK assignment number MPT_Practice_Linear_2011 is due : 09/14/2012 at 11:00pm PDT.

The following link

<http://mathweb1.sandbox.csun.edu/mpt/>

contains other important information about this course.

The primary purpose of WeBWorK is to let you know that you are getting the correct answer or to alert you if you are making some kind of mistake. Usually you can attempt a problem as many times as you want before the due date. However, if you are having trouble figuring out your error, you should consult the book, or ask a fellow student, one of the TA's or your professor for help. Don't spend a lot of time guessing – it's not very efficient or effective.

Give 4 or 5 significant digits for (floating point) numerical answers. For most problems when entering numerical answers, you can if you wish enter elementary expressions such as $2 \wedge 3$ instead of 8, $\sin(3 * \pi/2)$ instead of -1, $e \wedge (\ln(2))$ instead of 2, $(2 + \tan(3)) * (4 - \sin(5)) \wedge 6 - 7/8$ instead of 27620.3413, etc. Here's the **list of the functions** which WeBWorK understands.

You can use the Feedback button on each problem page to send e-mail to the professors.

1. (1 pt) Solve the following inequality. Write the answer in interval notation. If the answer involves more than one interval, write the intervals separated by the "union" symbol, U.

$$\frac{1}{2}x - 17 > 16$$

Answer: _____

If your answer is $-\infty$, enter -infinity; if your answer is ∞ , enter infinity.

Answer(s) submitted:

- (66, infinity)

(correct)

2. (1 pt) Solve the following inequality. Write the answer in interval notation.

$$19 \leq \frac{5}{9}(x - 32) \leq 44$$

Answer: _____

Note: If needed enter ∞ as *infinity* and $-\infty$ as *-infinity* .

Answer(s) submitted:

-

(incorrect)

3. (1 pt) Solve the following inequality. Write the answer in interval notation.

Note: If the answer includes more than one interval write the intervals separated by the "union" symbol, U. If needed enter ∞ as *infinity* and $-\infty$ as *-infinity* .

$$|x - 1| \geq 7$$

Answer: _____

Answer(s) submitted:

- (-infinity, -6] U [8, infinity)

(correct)

4. (1 pt) Solve the following inequality. Write the answer in interval notation.

$$|2x - 9| \leq 20$$

Answer: _____

Answer(s) submitted:

-

(incorrect)

5. (1 pt) Solve the following inequality. Write the answer in interval notation.

$$4|x + 10| - 2 < 6$$

Answer: _____

Answer(s) submitted:

-

(incorrect)

6. (1 pt) Solve the system

$$\begin{aligned} 2x - 6y &= 15, \\ -3x + 9y &= -24. \end{aligned}$$

Your answer is _____

If there is more than one point, type the points separated by a comma (e.g.: (1,2),(3,4)).

If the system has no solutions, type none in the answer blank.

Answer(s) submitted:

-

(incorrect)

7. (1 pt) Find the slope of the line through (-3, -5) and (-8, 5).

Answer(s) submitted:

-

(incorrect)

8. (1 pt) A line through $(-3, -7)$ with a slope of -1 has a y-intercept at _____

Answer(s) submitted:

•

(incorrect)

9. (1 pt) The equation of the line that goes through the points $(3, 3)$ and $(8, 10)$ can be written in the form $y = mx + b$ where m is: _____

and b is: _____

Answer(s) submitted:

•

•

(incorrect)

10. (1 pt) Write the equations of the vertical and horizontal lines that go through the point $(3, -2)$

Vertical Line: $___ = ______$

Horizontal Line: $___ = ______$

Answer(s) submitted:

•

•

•

•

(incorrect)

11. (1 pt) An equation of a line through $(-11, 11)$ which is perpendicular to the line $y = -2x + 2$ has slope:

_____ and y-intercept at:

Answer(s) submitted:

•

•

(incorrect)

12. (1 pt) The equation, in general form, of the line that passes through the point $(-6, 6)$ and is perpendicular to the line $2x - 5y + 6 = 0$ is $Ax + By + C = 0$, where

$A = ___$

$B = ___$

$C = ___$

Answer(s) submitted:

•

•

•

(incorrect)