

Math 1513 - College Algebra

Quiz #2 - 2018.08.24

Solutions

1. Solve the following inequality, express your solution in the ' $x \in$ an interval' format.

$$-2 < 4x + 5 \leq 12$$

First we subtract 5 from all sides:

$$-7 < 4x \leq 7$$

Then we divide all sides by 4:

$$-\frac{7}{4} < 4x \leq \frac{7}{4}$$

In interval notation, the solution would be given as $x \in \left(-\frac{7}{4}, \frac{7}{4}\right]$.

2. Someone wants to buy "Reynolds Wrap". What they are wanting to buy is:

- (a) **aluminum foil**
- (b) plastic wrap
- (c) wax paper
- (d) a novelty sandwich

(Problem 2 will not affect your grade in any way, it is merely a survey question)