ALGEBRA 2
PROBLEM SET #2

DUE DATE: AUGUST 22, 2023

Question 1. Consider the two following quantities:

Option A	**Option B**
$4(\frac{1}{2}x + 2y)$	$2x + 8y$

Which of the following is `True`?

(a) Option A is larger than Option B.
(b) Option B is larger than Option A.
(c) Option A and B are equal in value.
(d) Not enough information was given.

Question 2. Solve for all values of x that will make the following equation true:

$$5 - \frac{x}{7} = 2.$$

Hint: recall that $5 = \frac{5}{1}$ and to create common denominator before trying reverse-PEMDAS.

Question 3. For each of the following statements, mark the statement `True`, `False`, or `Sometimes True`.

(a) $6x = x(4 + 2)$
(b) $6x + 4y = 4x + 6y$
(c) $6x + 4y = 6x + 4y$
(d) $6 + 4 = 6x + 4x$
(e) $(x + 3)(x + 2) = x^2 + 5x + 6$
(f) $(x + 3)2 = x(x + 3)$