

Absolute Value Equations Partner Problems

Partner 1: _____

Partner 2: _____

Work each of the problems in your column. For each question, the solutions to your equation should match the solutions of your partner!

1	$ x-2 - 1 = 3$	1	$- x-2 + 7 = 3$
2	$-2 x-1 + 8 = 2$	2	$ x-1 - 1 = 2$
3	$2 x+3 = 2$	3	$- x+3 + 3 = 2$
4	$-1/2 x+6 + 4 = 3$	4	$ x+6 + 1 = 3$
5	$ x + 2 = 4$	5	$3 x - 2 = 4$

partner 1

2

$$\begin{array}{r} x+6=2 \\ \underline{-6-6} \\ x=-4 \end{array}$$

$$\begin{array}{r} x+6=-2 \\ \underline{-6-6} \\ x=-8 \end{array}$$

$$\begin{array}{r} -\frac{1}{2}|x+6| + 4 = 3 \\ \quad \quad \quad -4 \quad -4 \\ \hline \cancel{2} \left(\frac{1}{2}|x+6| \right) = (-1) \quad (?) \\ |x+6| = 2 \end{array}$$