Solve using Elimination:

5. $28\left(y = \frac{1}{2}x - 4\right) \rightarrow 28y = 14x - 112 \rightarrow -14x + 28y = -112$

$14x + 7y = 7 \longrightarrow + 14x + 7y = 7$

$$\frac{35y}{35} = \frac{-105}{35}$$

$$y = -3$$

$14x + 7(-3) = 7$

$14x - 21 = 7$
$ +21 +21$

$$\frac{14x}{14} = \frac{28}{14}$$

$x = 2$

sol: (2, -3)

Solve this system of equations. State your answers as ordered pairs.

$y = |x - 2| + 1$

$y = x + 6$

Since the solution would have to be estimated it's better to solve this problem using Algebra. See the next page.
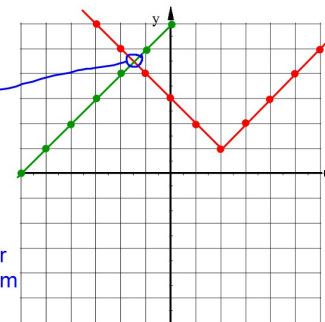
Solve this system of equations. State your answers as ordered pairs.

$y = |x - 2| + 1$

$y = x + 6$

$|x - 2| + 1 = x + 6$
$ -1 -1$

$|x - 2| = x + 5$

$y = -\frac{3}{2} + 6$

$y = \frac{9}{2}$

$X - 2 = -(x + 5)$

$x - 2 = -x - 5$

$2x = -3$

$x = -\frac{3}{2}$

$X - 2 = x + 5$

$-2 = 5$

since this is NOT true there is no solution from this part of the problem.

$\left(-\frac{3}{2}, \frac{9}{2}\right) \rightarrow (-1.5, 4.5)$