

$$|x + 3| = 6$$

$$|y - 2| = 7$$

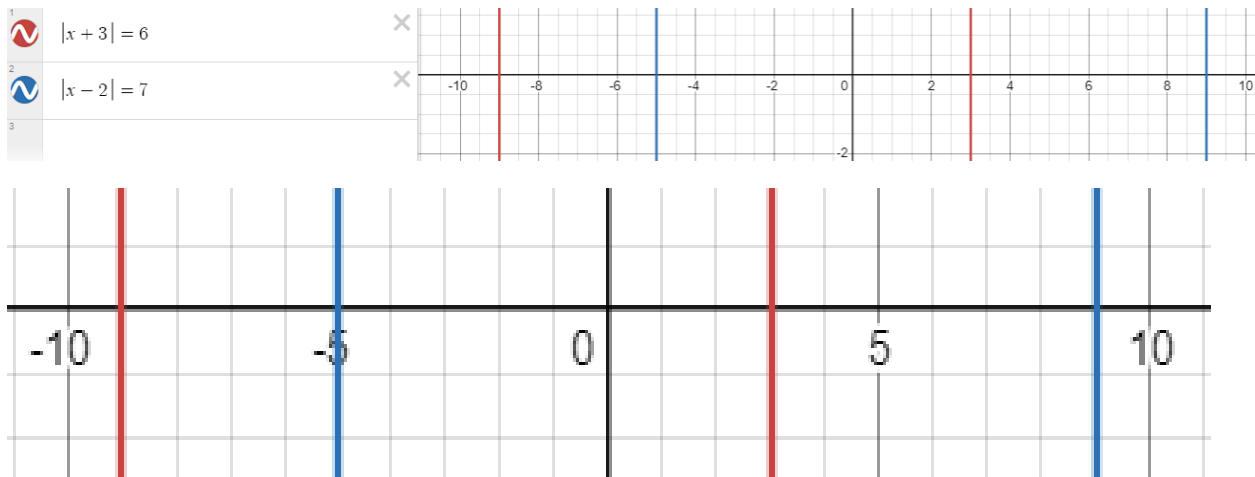
For the equations shown above, which of the following is a possible value of  $x - y$  ?

- A) -14
- B) -4
- C) -2
- D) 14

**Solution : B)**

- $|x + 3| = 6$  by desmos you find in red  $x = -9$  or  $x = 3$  in red.
- $|x - 2| = 7$  by desmos in blue  $x = -5$  or  $x = 9$  in blue.

Therefore,  $|y - 2| = 7$  has two solutions  $y = -5$  or  $y = 9$



- For  $x = -9$  and  $y = -5$ , we get  $x - y = -4$

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