



ALG 2 SAT/PSAT practice Thur, March 19, 2020

18

$$y < -x + a$$

$$y > x + b$$

In the xy -plane, if $(0, 0)$ is a solution to the system of inequalities above, which of the following relationships between a and b must be true?

- A) $a > b$
- B) $b > a$
- C) $|a| > |b|$
- D) $a = -b$



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ANSWERS

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 C) $|a| > |b|$
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↑
 This word
 is very
 important

substitute $(0, 0)$ into both inequalities

$y < -x + a$	$y > x + b$
$0 < -(0) + a$	$0 > 0 + b$
$0 < a$	$0 > b$
↑	↑
a is positive	b is negative

Ⓐ is definitely FALSE

Ⓒ & Ⓓ just might
be true

THE ANSWER IS
 CHOICE Ⓐ. ALL POS #'s
 ARE GREATER THAN
 ALL NEG #'s