This task is to help me know what you know and how I can help you. Don't worry. Try your best.

Name_____Student B_____

An equation is shown, where *a, b,* and *c* are integers. $y = a|x + b| + c$

Kyle claims that this equation will always have two roots.

Sandy claims that this equation will always have zero roots.

Using integers from -5 to 5 create an equation that supports Kyle's claim and describe the effects of the parameters *a, b,* and *c* on the shape and position of the graph.

$y = \boxed{3}|x + \boxed{2}| + \boxed{-5}$

The graph opens up and crosses twice.

Using integers from -5 to 5 create an equation that supports Sandy's claim and describe the effects of the parameters *a, b,* and *c* on the shape and position of the graph.

$y = \boxed{-3}|x + \boxed{2}| + \boxed{-5}$

The graph opens down and doesn't cross.

Using integers from -5 to 5 create an equation that disproves Kyle's and Sandy's claims and describe the effects of the parameters *a, b,* and *c* on the shape and position of the graph.

$y = \boxed{3}|x + \boxed{2}| + \boxed{0}$

The graph opens up and hits once.