

Match the equation to the graph and be prepared to explain your answer.

Rule I ~~$y = x^2 + 2$~~

Rule II $y = x^2 - 5x + 2$

Rule III ~~$y = -x^2 + 2$~~

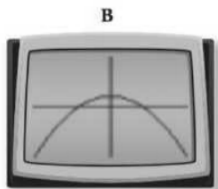
Rule IV ~~$y = -0.5x^2 + 2$~~

Rule V $y = x^2 + 5x + 2$



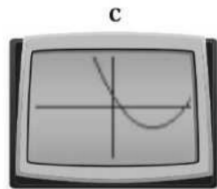
Rule $-x^2 + 2$

Explain opens Down



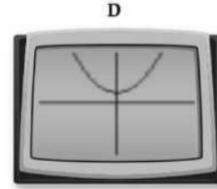
Rule $-0.5x^2 + 2$

Explain opens Down wider



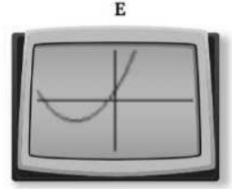
Rule $x^2 - 5x + 2$

Explain opens up
Shift up 2
 $-5x \rightarrow$ Shift Right



Rule $x^2 + 2$

Explain opens up
Shift up 2
Nothing Left or Right



Rule $x^2 + 5x + 2$

Explain opens up
Shift up 2
 $5x \rightarrow$ Shift Left