Indicate which of the following are true or false about the following system:

\[
\begin{align*}
3x + 2y &= -6 \\
-3x + 2y &= 6 \\
\end{align*}
\]

A. Graph has no solutions.  
B. These equations have the same x-intercept.  
C. The graphs of these two lines are perpendicular.  
D. These equations have the same y-intercept.  
E. Graph has one solution at (−2,0)

Scoring:
2 points: Selected B and E only.
1 point: Selected either B or E only.
0 points: Any other combination.

Key and Distractor Analysis:
A. Student might have used the elimination method and been confused when the remaining equation equals zero.
B. Key. Both have an x-intercept of (−2,0).
C. Student might have confused perpendicular lines having opposite slopes only.
D. Student might have made a mistake with a negative sign. One equation has a y-intercept of (0,−3) while the other has a y-intercept of (0,3).
E. Key. The only solution that these two linear equations share is (−2,0).