Problem:

A blue plane flies across the country at a constant rate of 400 miles per hour. Write and equation and sketch a graph to show the relationship between distance and hours traveled for the blue plane.

Solution:

Well-known equation, which shows relationship between speed, distance and time(it follow from the definition of speed):
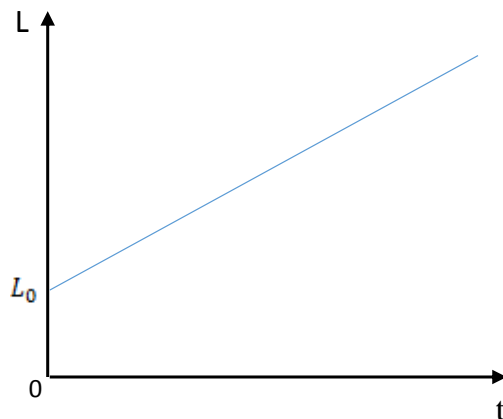
$L = vt$

Where L – distance travelled;

v – speed of the plane;

t – time of travel;

According to the equation above, we can sketch a graph to show the relationship between distance and hours traveled for the blue plane (this dependence is linear):

Where L_0 – initial coordinate(position) of the plane.

Answer: $L = vt$