

Name _____

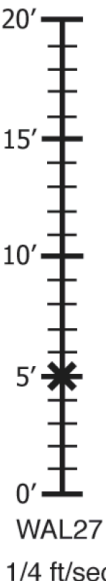
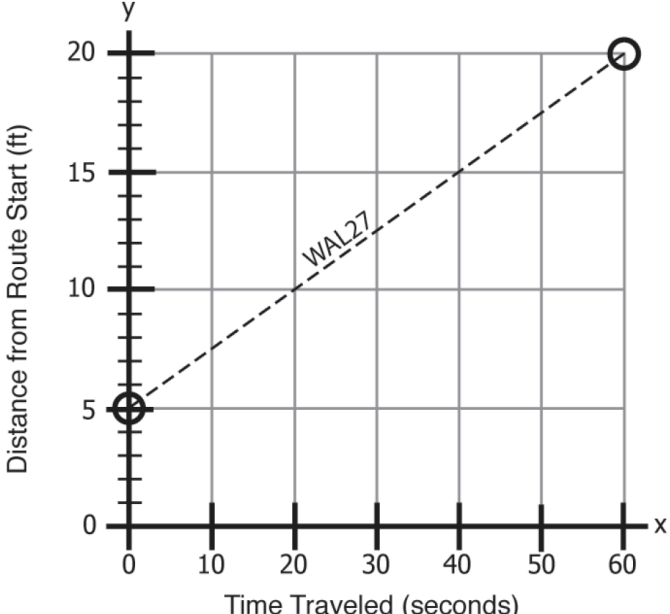
Answers



Student Assessment C

Analyzing the Speed of One Plane

1. Use the information given in the Jet Route Panel or in the Graph Panel to do the problem below. You do **not** need to use the simulator.

Jet Route Panel	Graph Panel	Equation Panel
 <p>20'</p> <p>15'</p> <p>10'</p> <p>5'</p> <p>0'</p> <p>WAL27</p> <p>1/4 ft/sec</p>	 <p>y</p> <p>20</p> <p>15</p> <p>10</p> <p>5</p> <p>0</p> <p>Distance from Route Start (ft)</p> <p>0</p> <p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>50</p> <p>60</p> <p>x</p> <p>WAL27</p>	$y = m x + b$ <hr/> $y = \boxed{1/4} x + 5$

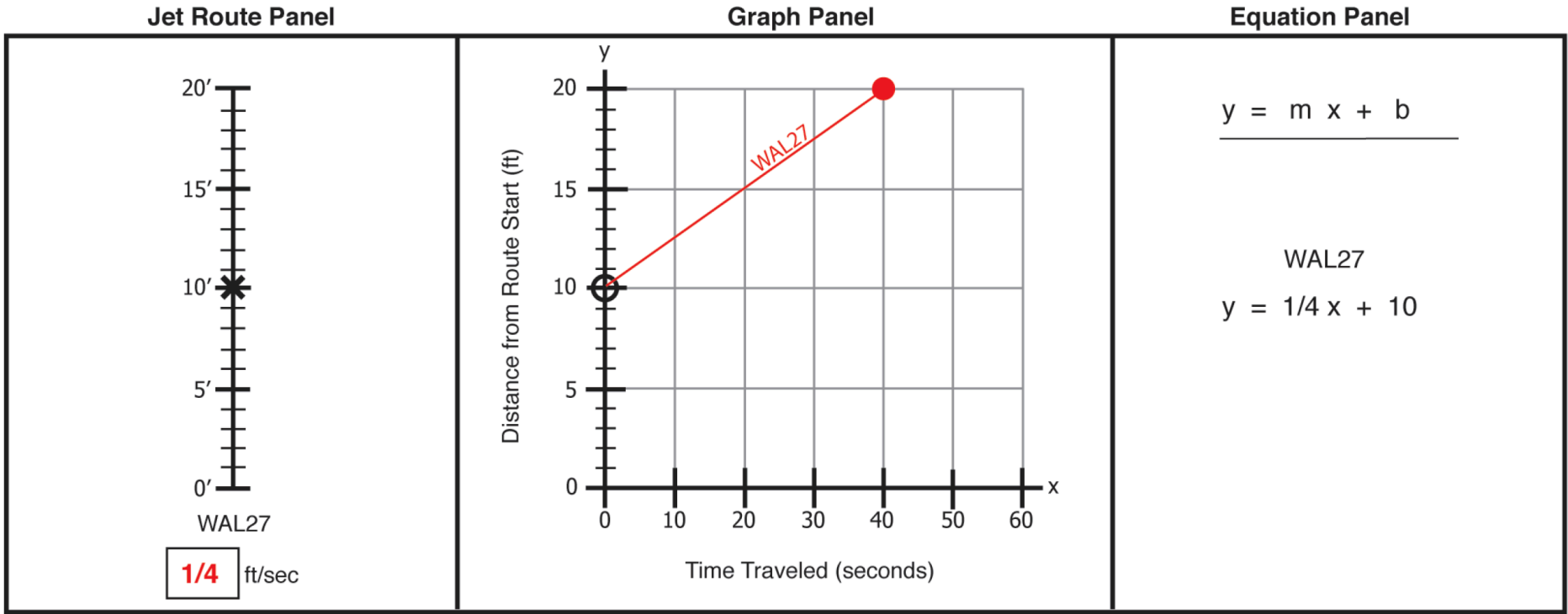
The WAL27 starting position is shown.

Equation Panel:

- (a) Fill in the missing value in the WAL27 equation.



2. Use the information given in the Equation Panel to do the problem below. You do **not** need to use the simulator.



Jet Route Panel: The WAL27 starting position is shown.

(a) Fill in the WAL27 speed.

Graph Panel: One point for the WAL27 line is shown.

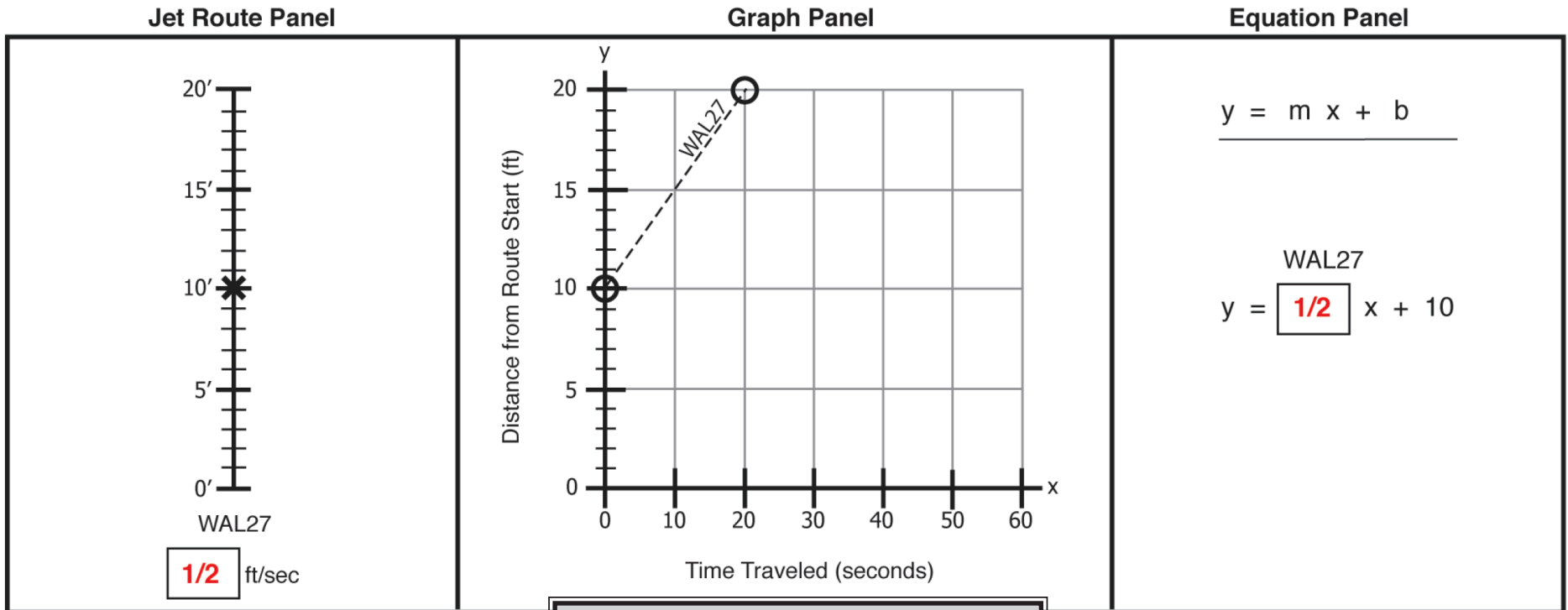
- (b) Plot one more point (●) for the WAL27 line. ←
- Hint:** You can use the WAL27 equation to make a table of points that lie on the line.
- (c) Connect the two points to draw the WAL27 line.

Accept any point on the graph of $y = \frac{1}{4}x + 10$.

The point (40, 20) is shown.



3. Use the information given in the Graph Panel to do the problem below. You do *not* need to use the simulator.



Hint: Find the slope of the WAL27 line.

Jet Route Panel: The WAL27 equation is shown.

(a) Fill in the WAL27 speed.

Equation Panel: The WAL27 equation is shown.

(b) Fill in the missing value in the WAL27 equation.