Name _____

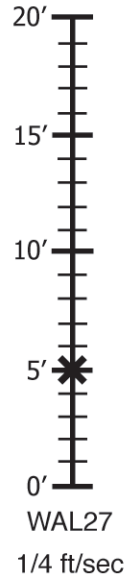
Answers

Student Assessment C

Analyzing the Speed of One Plane

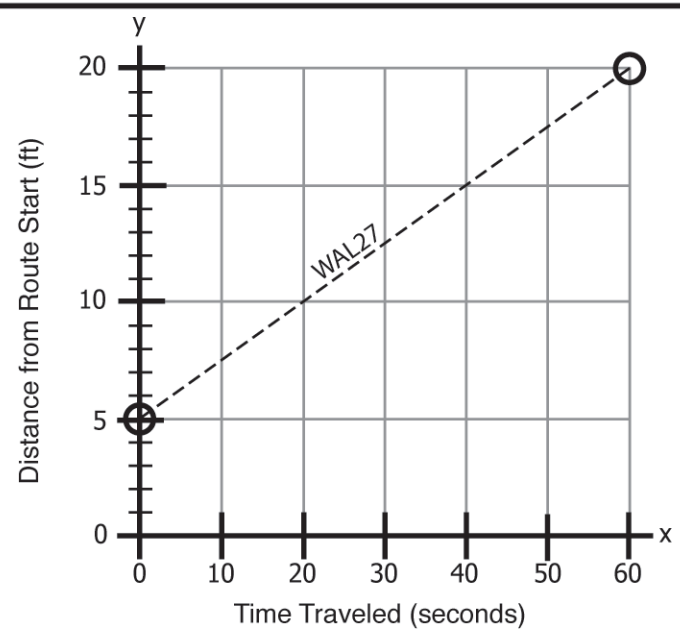
1. Use the information given in the Jet Route Panel or in the Graph Panel to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



The WAL27 starting position is shown.

Graph Panel



Equation Panel

$y = m\,x + b$

WAL27

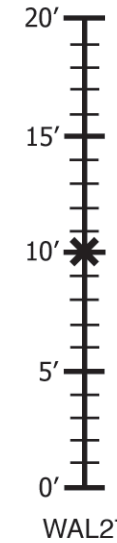
$y = \boxed{1/4}\,x + 5$

Equation Panel:

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

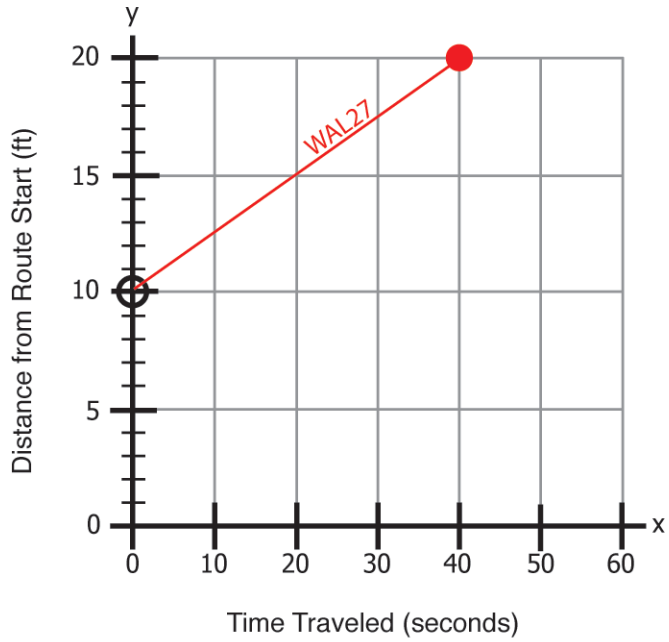
2. Use the information given in the Equation Panel to do the problem below. You do ***not*** need to use the simulator.

Jet Route Panel



1/4 ft/sec

Graph Panel



Equation Panel

$y = m x + b$

WAL27

$y = 1/4\, x + 10$

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 $y = 1/4\, x + 10$.

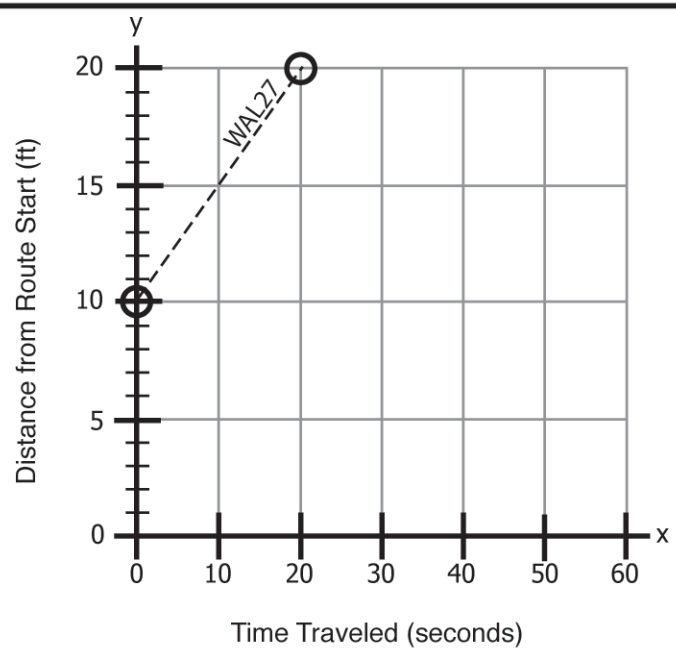
The point (40 , 20) is shown.

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

Jet Route Panel

1/2 ft/sec

Graph Panel



Equation Panel

$y = m\,x + b$

WAL27

$y = \boxed{1/2}\,x + 10$

Hint: Find the slope of the WAL27 line.

Jet Route Panel: The WAL27 starting position is shown.

(a) Fill in the WAL27 speed.

Equation Panel:

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