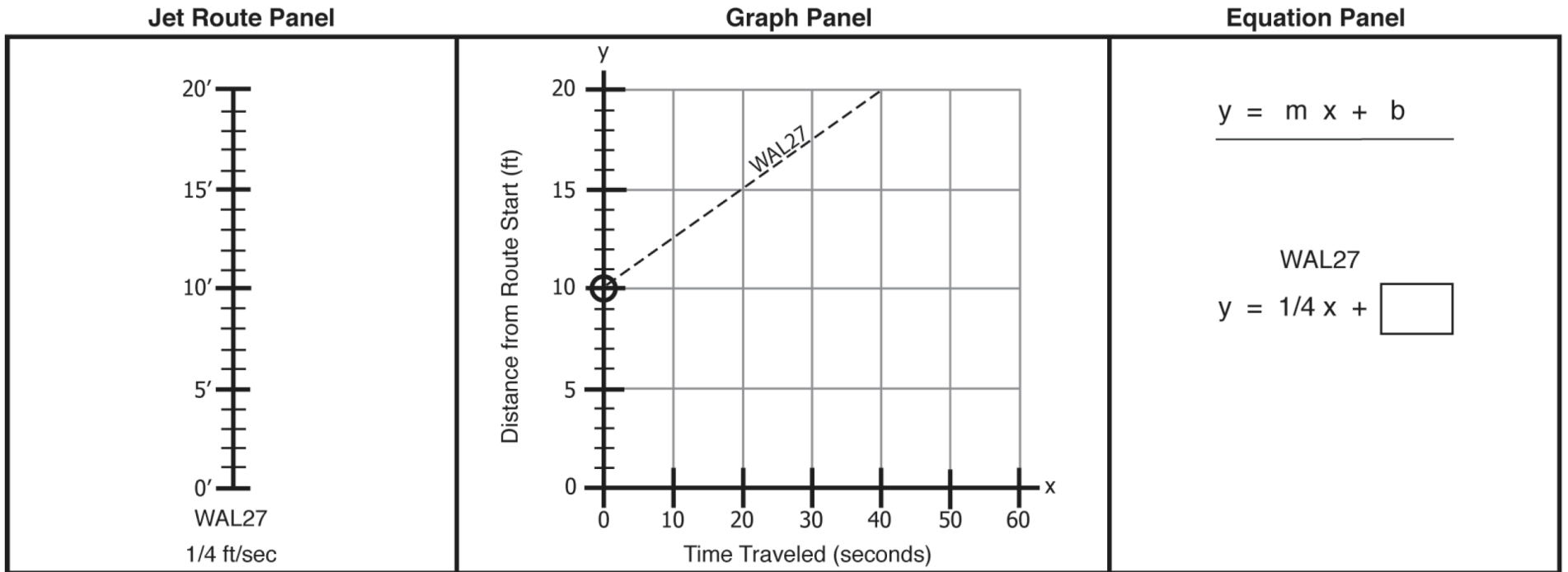Name _____

Student Assessment B

Analyzing the Starting Position of One Plane

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

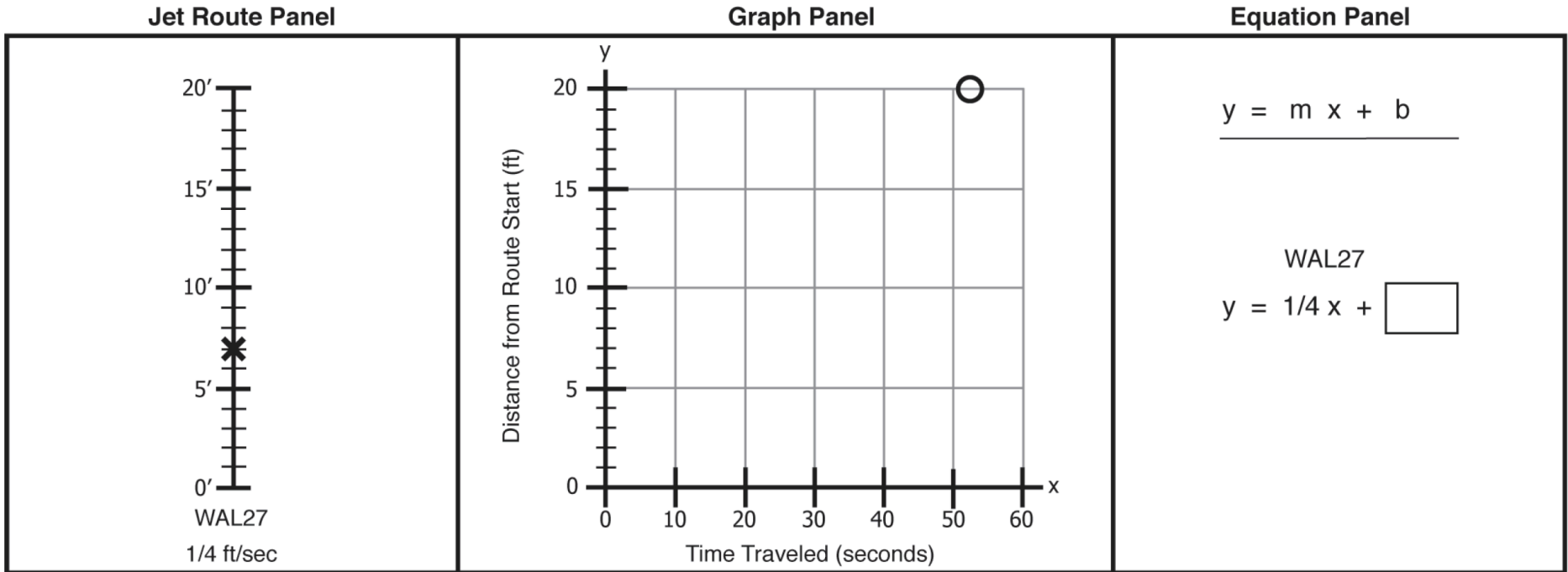| **Jet Route Panel**	**Graph Panel**	**Equation Panel**

Jet Route Panel:

(a) Place an **X** at the WAL27 starting position.

Equation Panel:

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

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

Jet Route Panel	Graph Panel	Equation Panel

Jet Route Panel

20'

15'

10'

5'

0'

WAL27

1/4 ft/sec

Graph Panel

Distance from Route Start (ft)

20

15

10

5

0

Time Traveled (seconds)

0   10   20   30   40   50   60

Equation Panel

$$y = m x + b$$

WAL27

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

Jet Route Panel: The WAL27 starting position is shown.

(a) What is the WAL27 starting position? _____ ft
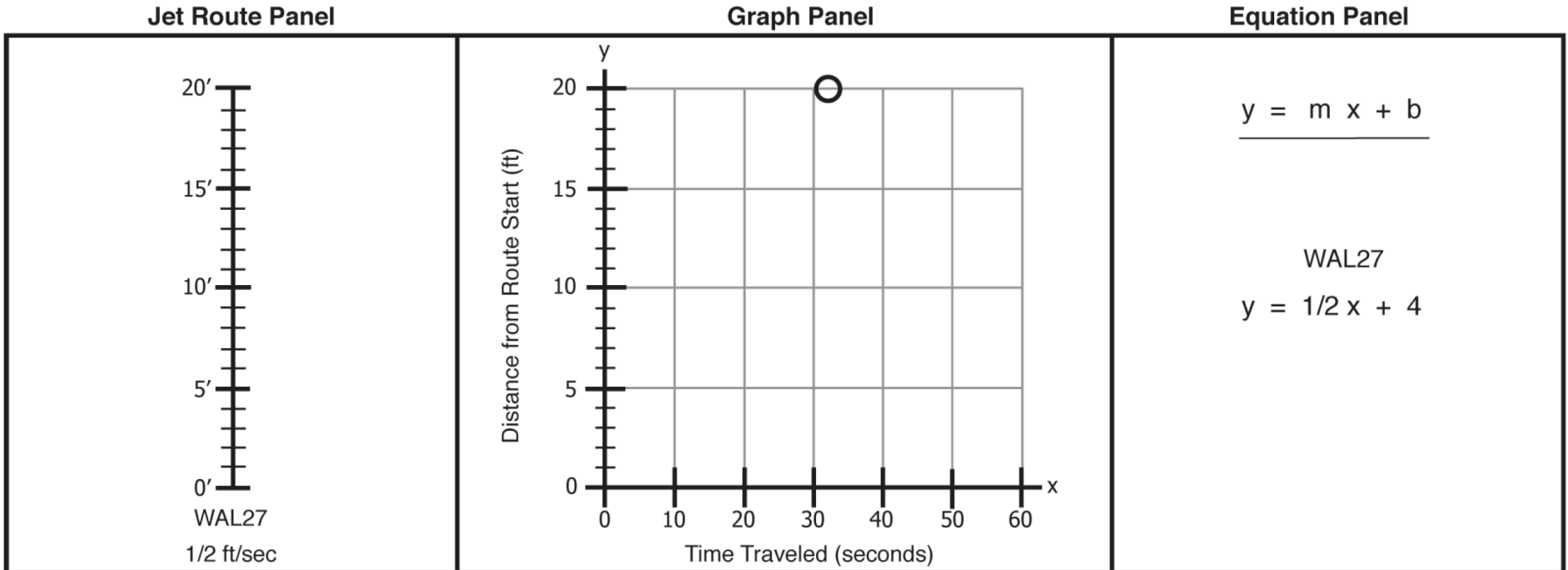
Graph Panel: One point for the WAL27 line is shown.

(b) Plot one more point (•) for the WAL27 line.

(c) Connect the two points to draw the WAL27 line.

Equation Panel:

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

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

Jet Route Panel

WAL27

1/2 ft/sec

Graph Panel

Distance from Route Start (ft)

Time Traveled (seconds)

Equation Panel

$$y = m\,x + b$$

WAL27

$$y = 1/2\,x + 4$$

Jet Route Panel:

(a) Place an **X** at the WAL27 starting position.

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

(b) Plot one more point (•) for the WAL27 line.

(c) Connect the two points to draw the WAL27 line.

Equation Panel: The WAL27 equation is shown.

(d) At time zero, what is the value of y?

_____ ft

Remember: At time zero, x = 0.