Vector Maps - Graphic and Component Methods **Name** _____

Vector Lab – The Vacation Trip

Step 1. Locate and label 6 rides or attractions on the map (including the gate).

Step 2. Enjoy a day at the park, starting at the gate, and going in straight lines from one point to the next until it is time to go home. Use arrows to show the direction of travel (a small arrow head at the end of the line).

Step 3. Using a protractor and a ruler, find out the direction and magnitude for each of these arrows. The directions should always be compared to the paper so that 0° will be to the right, 90° will be up, 180° will be to the left and 270° will be down.

Step 4. Name those vectors and place their measurements below.

_____

_____

_____

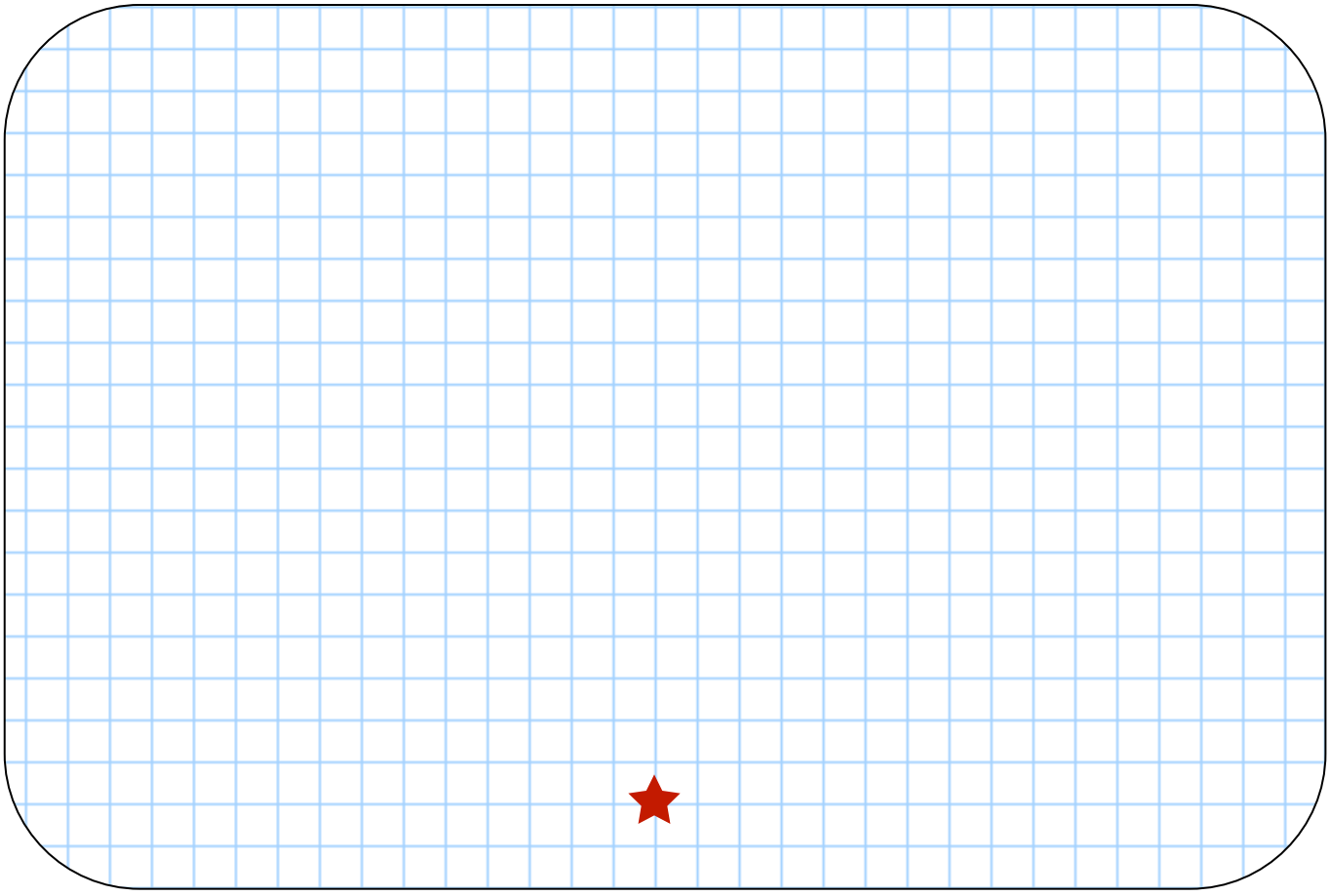
_____

_____

_____

Step 5. Using the information from the lines above, draw a head to tail addition of the vectors below. Use a scale so that 1 cm on the map = 0.5 cm on the page. Find, using the ruler and protractor, the resultant and the equilibrant.

R = **E =**



Vector Maps - Graphic and Component Methods **Name** _____

Step 6. Find the horizontal and vertical components of each of the 6 vectors. Watch negatives, you will have positive and negative values in each column.

X components	Y components
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Step 7. Find the total x and total y of the resultant.

R_x = _____ R_y = _____

Step 8. Calculate the resultant and the equilibrant vectors.

R = _____

E = _____

Step 9. Conclusion

Compare and contrast the two methods of vector addition . Be sure to mention the simplicity and accuracy of each method.

Magic Kingdom — FANTASTIC FOOD & FAST SNACK SITES

Healthier Choice — The "apple" symbol signifies the availability of low-fat, low-cholesterol food choices. For special dietary needs, please ask for assistance at Guest Relations.

TABLE SERVICE
Priority seating suggested.

A Tony's Town Square Restaurant — Salads, pastas, paninos, and specialty entrees served with an Italian flair. Serving breakfast, lunch and dinner. Presented by Buitoni

B The Plaza Restaurant — Deli sandwiches, burgers and sundaes. Lunch/dinner. Hosted by Hills Bros.

C Liberty Tree Tavern — A la carte lunches include entrees, salads and sandwiches. Serving lunch and dinner. Hosted by Stouffer's

D Cinderella's Royal Table — Hearty and lighter fare fit for royalty. Serving lunch and dinner.

E The Crystal Palace, A Buffet with Character — All-you-can-eat buffet with character visits. Serving breakfast, lunch and dinner. Hosted by Colombian Coffee Growers

COUNTER SERVICE

F "The Diamond Horseshoe Saloon Revue" — Continental breakfast items, sandwiches, salads, hand-scooped ice cream, snacks, beverages.

G El Pirata Y el Perico Restaurante — Tacos, nachos, taco salads, hot dogs.

H Pecos Bill Cafe — Cheeseburger and hot dog baskets, wrapped sandwiches, salads, root beer floats, and beverages. The best food in the West!

I Aunt Polly's Dockside Inn — Ham & cheese sandwich "picnic" lunches, freshly baked apple pie, soft-serve ice cream.

J Columbia Harbour House — Hearty sandwiches, salad, clam chowder, fish and chicken baskets.

K The Pinocchio Village Haus — Cheeseburgers, hot dogs, specialty wrap sandwiches and salads.

L Cosmic Ray's Starlight Cafe — Cheeseburgers (including vegetarian), rotisserie chicken, soups, sandwiches, and salads. Hosted by Coca-Cola

M The Plaza Pavilion — Pizza, deli sandwich, salad, fried chicken basket.

N Casey's Corner — Hot dogs, fries and beverages. Hosted by Coca-Cola

FAST SNACKS

O Main Street Bake Shop — Cookies, pastries, cakes and confections. Hosted by Nestlé Toll House

P Plaza Ice Cream Parlor — Hosted by Nestlé Ice Cream

Q Aloha Isle — Famous Dole Whips. Hosted by Dole

R Sunshine Tree Terrace — Citrus specialties, non-fat frozen yogurt, cappuccino, espresso and beverages.

S Frontierland Kiosk — French fries and beverages. Hosted by McDonald's.

T Sleepy Hollow — Caramel corn prepared before your eyes, seasonal fresh fruit cobblers, freshly prepared baked goods, cappuccino, espresso, iced cappuccino, and beverages.

U Scuttle's Landing — Shaved ice, beverages.

V Toontown Market — Fresh fruit, snacks and beverages.

W Enchanted Grove — Lemonade slushes, strawberry swirl, juice. Hosted by Minute Maid

X Mrs. Potts' Cupboard — Soft-serve ice cream, floats, sundaes, shakes.

Y Auntie Gravity's Galactic Goodies — Soft-serve ice cream, smoothies, fruit juices.

Z The Lunching Pad at Rockettower Plaza — Snacks, smoked turkey legs, beverages.

AA Cool Ship — Beverages. Hosted by Coca-Cola

BB Hook's Tavern — Snacks, beverages.

CC Caffè Italiano — Coffee, breakfast pastries. Hosted by Hills Bros.

LIBERTY SQUARE

ATTRACTIONS

16 "The Diamond Horseshoe Saloon Revue"

17 The Hall of Presidents (opens at 10am; continuous shows on the hour and half-hour)

18 The Haunted Mansion

19 Liberty Belle Riverboat

20 Mike Fink Keelboats

SHOPPING

- Ye Olde Christmas Shoppe
- The Yankee Trader (presented by The J.M. Smucker Company)

FRONTIERLAND

ATTRACTIONS

10 Big Thunder Mountain Railroad (minimum height 40")

11 Country Bear Jamboree

12 Frontierland Shootin' Arcade

13 Splash Mountain (minimum height 40")

14 Raft to Tom Sawyer Island (closes at 5pm)

15 *Walt Disney World®* Railroad (opens 9am; closing time varies with Park hours and fireworks)

SHOPPING

ADVENTURELAND

ATTRACTIONS

5 Jungle Cruise

6 Pirates Of The Caribbean

7 Swiss Family Treehouse

8 "The Enchanted Tiki Room Under New Management"

9 Shrunken Ned's Junior Jungle Boats (remote-controlled boats)

SHOPPING

- House of Treasure

MAIN STREET, U.S.A.

1 City Hall

2 Guest Information Board

ATTRACTIONS

3 Main Street Vehicles (presented by National Car Rental®)

4 *Walt Disney World®* Railroad (opens 9am; closing time varies with park hours and fireworks)

SHOPPING

- Emporium
- Disney Clothiers
- Main Street Gallery
- Main Street Cinema
- Town Square Exposition Hall/Camera Center (presented by Kodak)

FANTASYLAND

ATTRACTIONS

21 Cinderella's Golden Carrousel

22 Dumbo The Flying Elephant

23 "it's a small world"

24 Mad Tea Party

25 The Many Adventures of Winnie the Pooh

26 Peter Pan's Flight

27 Legend of the Lion King (presented by Kodak)

28 Skyway to Tomorrowland (open 10:30am to 7pm)

29 Snow White's Scary Adventures

30 Castle Forecourt Stage

31 Fantasyland Character Festival

SHOPPING

- Tinker Bell's Treasures
- Sir Mickey's

MICKEY'S TOONTOWN FAIR

ATTRACTIONS

32 Donald's Boat

33 Mickey's Country House

34 Minnie's Country House

35 Toontown Hall Of Fame (Character Greeting location)

36 The Barnstormer at Goofy's Wiseacre Farm Roller coaster (minimum age 3 years -presented by Friskies)

37 *Walt Disney World®* Railroad (opens 9am; closing time varies with park hours and fireworks)

SHOPPING

- County Bounty

TOMORROWLAND

ATTRACTIONS

38 Astro Orbiter

39 The ExtraTERRORestrial Alien Encounter (minimum height 44")

40 Tomorrowland Speedway (minimum height 52" - presented by Goodyear)

41 Space Mountain (minimum height 44" - presented by FedEx)

42 The Timekeeper

43 Buzz Lightyear's Space Ranger Spin

44 Walt Disney's Carousel Of Progress (open 11am to 5pm)

45 Skyway to Fantasyland (open 10:30am to 7pm)

46 Tomorrowland Arcade

47 Tomorrowland Transit Authority

48 Galaxy Palace Theater

49 Tomorrowland Stage

SHOPPING

- Mickey's Star Traders (presented by Coppertone)

LEGEND

- Parade Route
- Rest Rooms (All accessible)
- First Aid/Baby Services
- Telephones - Touch *88 for toll-free Disney hotel reservations and WDW-DINE
- Pay phone equipped with TTY
- Phone cards for international calls available for purchase
- Kodak "Photo Spot" for prime picture-taking location
- Guest Relations
- Parade Viewing Area
- May remain in wheelchair or ECV
- Must transfer from wheelchair
- Attraction may be too intense for very young children
- Must be ambulatory to experience this attraction
- Must transfer from ECV to wheelchair
- RC Reflective Captioning system available. Contact a host or hostess at the attraction.
- Assistive-listening devices which amplify the audio may be used at this location and are available at Guest Relations
- CC Guest-activated captioning available on selected video monitors in this attraction. Please visit Guest Relations to obtain an activator.
- Automatic Teller Machine *presented by SunTrust, N. A.*
- Disney Photo Express Service - film drop-off
- Disney Photo Express Service - all photo pickup
- Mail Drop
- Stroller/Wheelchair Rentals
- Locker Rentals
- Hospitality Desk
- Disney Character Greeting Locations
- Disney Vacation Club Information
- Disney's FASTPASS.m

Boarding Information
Please observe the following warnings at designated attractions:

▲ For safety and comfort, you should be in good health and free from heart, back or neck problems, motion sickness, or other conditions that could be aggravated by this adventure. Expectant mothers should not ride. Young children should be accompanied by an adult.

Persons who do not meet the minimum height requirement may not ride. Parents with young children may take turns experiencing the ride.

Check Guidemap when you arrive in the Park for times.

CHARACTER DINING

MAIN STREET, U.S.A.

The Crystal Palace, A Buffet with Character
Enjoy a bountiful buffet with Winnie the Pooh and his friends from the Hundred Acre Wood. Breakfast, lunch and dinner served. Priority seating not always necessary. Stop by and check for availability!

FANTASYLAND

Cinderella's Royal Table
Step into a storybook for a breakfast fit for royalty with friends from Disney's animated classics. Priority seating strongly suggested.

LIBERTY SQUARE

Liberty Tree Tavern
A "revolutionary" way to dine with your favorite Disney patriots for dinner beginning at 4pm! Priority seating not always necessary. Stop by and check for availability!

For more information on priority seating, stop by any table-service restaurant or City Hall, or touch *988 from a public telephone for toll-free access to WDW-DINE.

SMOKING For the comfort of all our Guests, smoking is prohibited in all waiting areas, attractions, stores, dining areas, rest rooms and locations designated for parade and show viewing. Thank you.