Laboratory Key #2 – Introduction to Quadrangle Maps

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1. point 1 27° 36' 45" N, 99° 26' 50" W point 2 27° 36' 25" N, 99° 24' 55" W point 3 27° 31' 55" N, 99° 25' W point 4 27° 31' 40" N, 99° 22' 45" W point 5 27° 36' 50" N, 99° 23' 40" W point 6 27° 37' N, 99° 23' 20" W
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- North point 6 (biggest latitude)
 West point 1 (biggest longitude)
 South point 4 (smallest latitude)
 East point 4 (smallest longitude)
- 3. 4.15 miles
- 4. 11 inches X 0.379 miles/inch = **4.169 miles**
- 5. The fractional scale is the most accurate because it is based on the areal photos used to make quadrangle maps.
- 6. the contour interval is 10 feet
- 7. point 1 = 600 feet point 2 = 500 feet point 3 = 450 feet point 4 = 550 feet point 5 = 500 feet point 6 = 550 feet
- 8. Chacon Creek south of Lake Casa Blanca is flowing SW.
- 9. rise is 600 ft 500 ft = 100 ft
- 10. run = 2 mile
- 11. slope = 100 ft/2 miles = 50 ft/mile
- 12. rise is 550 ft 450 ft = 100 ft
- 13. run = 2.3 miles
- 14. slope = 100 ft/2.3 miles = 43.5 ft/mile

- 15. the stream is flowing west
- 16. rise is 550 ft 500 ft = 50 ft
- 17. run = 0.43 miles
- 18. slope = 50 ft/0.43 miles = 116.3 ft/mile
- 19. the stream is flowing southwest
- 20. Question 17, between points 5 & 6, slope is steeper and contour lines are closer together