





## Topographic Map Exercises

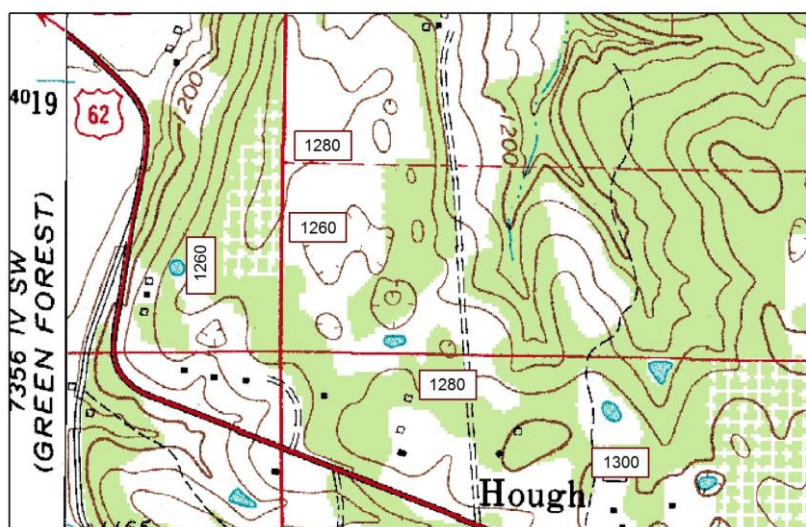
### Exercise 1 – p. 16

1. A – 20 ft.  
B – 100 ft
2. A -   
B – at least 6
3. A -   
B – at least 14
4. A – Sec 19 T16N R9W  
B -   
C – Yes; contains abundant springs and caves. If you look at the geologic worksheet you will see the rock formation is made up of dolostone which consists of calcium carbonate.

### Exercise 2 – p. 16-17

1. A -   
B – sandstone
2. 1040 – Sec. 32 in NW part of map
3. Rock Castle Hollow
4. Wolf Den – 300 ft. from Wolf Den Creek; Meeks Mt – 440 from Branch Creek
5. Self explanatory

### Exercise 3 p. 18 –



#### Exercise 1 p. 26 – Moore Quadrangle

1. Approx. 3.7 miles
2. 1820-1200 ft = 620 ft.
3. Approx. 168 ft./mile
4. Yes
5. Devils forks – rugged; lots of elevation change; Richland – fairly flat and can see floodplain.

#### Exercise 2 – Beaver Quad

1. Dendritic
2. Flat lying rock formations

#### Exercise 3 – Nichols Mountain quad

1. Trellis
2. Long east/west trending ridges with side streams flowing perpendicular to main stream. Trellis drainage occurs in steeply dipping rock formations.

#### Exercise 4 – De Valls Bluff quad p. 26-27

1. Aprox. 16 miles
2. 170-160 ft = 10 ft
3. .625 ft/miles; less than 1 ft. per mile
4. White River – very low gradient and flat terrain; Long Devils - ;high gradient, hilly terrain.
5. White River – Mississippi River Alluvial Plain; Long Devils – Ozark Plateaus Region

#### Exercise 5 – Casa quad

1. Outside edge of structure
2. Right side up
3. Inward to the center
4. Syncline

#### Exercise 6 – Caddo Valley quad

1. NW – ridges, hilly; SE – flat, meandering stream, swampy
2. NW – Ouachita Mts. Region; SE – W Gulf Coastal Plain

#### Exercise 7 – Perryville quad p. 28

1. N – flat swampy, meandering river; S – steep ridges, trellis drainage
2. N – Arkansas River Valley; S – Ouachita Mts. Region

Exercise 8 – Prairie Grove quad

1. Small hills – buttes; Stevenson Mt. – mesa
2. Flat lying rock formations; dendritic drainage pattern

Exercise 9 – Ferndale quad

1. Hogback
2. Steeply inclined rock, trellis drainage pattern

Exercise 10 – Rich Mountain quad p. 29

1. Cuesta; steeper on N side of ridge, asymmetric
2. Ouachita Mts. Region