# **Lab 2 – Submittal**

**SAVE THIS AS A PDF and SUMITT**

1. **(10 pts)** Given NAD27 Lat: 36.05544308 Lon: Lon: -100.58169940

|  |  |
| --- | --- |
| **UTM NAD 27 meters** | **UTM NAD 83(1986) meters** |
| N: | N: |
| E: | E: |

Distance = Sqrt ((N27- N83)2 + (E27 – E83)2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ meters.

1. **(10 pts)** Using the older topo…

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| **Feature** | **Decimal Degrees** | **Degrees Minutes** | **Degrees Minutes Seconds** |
| *EXAMPLE: Eller O&M Building* | 30.6178o, -96.3367o | 30o 37.068’, -96o 20.203’ | 30o 37’ 4”, -96o 20’ 12” |
| Texas A&M golf course building |  |  |  |
| Lake Placid @  North center dam release |  |  |  |
| Easterwood Airport main terminal building |  |  |  |
| Jack K. Williams Administration Building |  |  |  |

1. **(10pts)** Using coordinate conversion…

|  |  |  |
| --- | --- | --- |
| **Feature** | **NAD 27 fts** | **NAD 83 (2011) fts** |
| Texas A&M golf course building |  |  |
| Lake Placid @  North center dam release |  |  |
| Easterwood Airport main terminal building |  |  |
| Jack K. Williams Administration Building |  |  |

1. **(5pts)** Search for a well…

|  |  |
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| **NAD 27 fts** | **NAD 83(1986) fts** |
| N: | N: |
| E: | E: |

1. **(5pts)** NAD83 parameters never change…

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| **NAD83 DMS.SSSS** | **NAD83 State Plane TxSC FTS** | **NAD83 (2011) State Plane TxSC FTS** |
| **Lat:** | **N:** | **N:** |
| **Lon:** | **E:** | **E:** |

1. **(10pts)** Review and Search the Natural Resources Code for State of Texas. <https://statutes.capitol.texas.gov/Docs/SDocs/NATURALRESOURCESCODE.pdf>

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| **Zone** |  | **NAD83** | **NAD 27** |
| Texas North | Std Parallels:  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  Central Meridian  Lat: \_\_\_\_\_\_\_\_\_\_  Lon: \_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ |
| Texas North Central | Std Parallels:  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  Central Meridian  Lat: \_\_\_\_\_\_\_\_\_\_  Lon: \_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ |
| Texas Central | Std Parallels:  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  Central Meridian  Lat: \_\_\_\_\_\_\_\_\_\_  Lon: \_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ |
| Texas South Central | Std Parallels:  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  Central Meridian  Lat: \_\_\_\_\_\_\_\_\_\_  Lon: \_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ |
| Texas South | Std Parallels:  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  Central Meridian  Lat: \_\_\_\_\_\_\_\_\_\_  Lon: \_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ | x: \_\_\_\_\_\_\_\_\_\_\_  y: \_\_\_\_\_\_\_\_\_\_\_ |