Pre-Calculus 4.1 – 4.3 REVIEW **NO CALCULATOR** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour:\_\_\_\_\_\_\_

**Answer each question carefully. You MUST show work for full credit.**

* 1. Given the point on the unit circle below, find all six trigonometric functions.

Sin = \_\_\_\_\_\_\_

Cos= \_\_\_\_\_\_\_

Tan= \_\_\_\_\_\_\_

Csc = \_\_\_\_\_\_\_

Sec= \_\_\_\_\_\_\_

Cot= \_\_\_\_\_\_\_



* 1. Given that , , Find the exact value of each of the remaining trig functions.

Sin = \_\_\_\_\_\_\_

Cos= \_\_\_\_\_\_\_

Tan= \_\_\_\_\_\_\_

Csc = \_\_\_\_\_\_\_

Sec= \_\_\_\_\_\_\_

Cot= \_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **#8-12: Find the exact value of each expression below.** | |
| 8. | 9. |
| 10. | 11. |
| 12. | |
| **#13-14:** Find the co-function with the same value as the given expression | |
| 13. | 14. |

Pre-Calculus 4.1 – 4.3 REVIEW **CALCULATOR** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour:\_\_\_\_\_\_\_

**Answer each question carefully.**

**You MUST show work (neatly) for full credit.**

**Please circle your final answer(s).**

|  |  |
| --- | --- |
| 15. Convert 125o to radians. | 16. Convert  to degrees. |
| #17-18 : Find one positive and one negative coterminal angle.  Your answer must be in the same form as the question. | |
| 17. | 18. |
| 19. At a certain time of day, the angle of elevation of the sun is 35 degrees. To the nearest foot, find the height of a tree whose shadow is 40 feet long. | |
| 20. A telephone pole is 50 feet tall. A guy wire 75 feet long is attached from the ground to the top of the pole. Find the angle between the wire and the pole to the nearest degree. | |