Precalculus

Problem Set 5 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluate each expression without using a calculator.

1. = \_\_\_\_\_\_\_\_\_\_
2. cos(-495˚) = \_\_\_\_\_\_\_\_\_\_
3. tan(-330˚) = \_\_\_\_\_\_\_\_\_\_
4. = \_\_\_\_\_\_\_\_\_\_
5. = \_\_\_\_\_\_\_\_\_\_
6. = \_\_\_\_\_\_\_\_\_\_
7. = \_\_\_\_\_\_\_\_\_\_
8. cos 315˚ = \_\_\_\_\_\_\_\_\_\_
9. = \_\_\_\_\_\_\_\_\_\_
10. = \_\_\_\_\_\_\_\_\_\_
11. = \_\_\_\_\_\_\_\_\_\_
12. \_\_\_\_\_\_\_\_\_\_
13. \_\_\_\_\_\_\_\_\_\_
14. cos(120˚) = \_\_\_\_\_\_\_\_\_\_
15. = \_\_\_\_\_\_\_\_\_\_
16. = \_\_\_\_\_\_\_\_\_\_
17. csc(240˚) = \_\_\_\_\_\_\_\_\_\_
18. cot(540˚) = \_\_\_\_\_\_\_\_\_\_

Give answers in radians.

1. = \_\_\_\_\_\_\_\_\_\_
2. = \_\_\_\_\_\_\_\_\_\_
3. = \_\_\_\_\_\_\_\_\_\_
4. = \_\_\_\_\_\_\_\_\_\_
5. = \_\_\_\_\_\_\_\_\_\_
6. arctan(1) = \_\_\_\_\_\_\_\_\_\_
7. = \_\_\_\_\_\_\_\_\_\_
8. = \_\_\_\_\_\_\_\_\_\_
9. =\_\_\_\_\_\_\_\_\_\_
10. = \_\_\_\_\_\_\_\_\_\_
11. = \_\_\_\_\_\_\_\_\_\_
12. \_\_\_\_\_\_\_\_\_\_
13. = \_\_\_\_\_\_\_\_\_\_
14. arccos(1) = \_\_\_\_\_\_\_\_\_\_
15. = \_\_\_\_\_\_\_\_\_\_
16. arcsin(1) = \_\_\_\_\_\_\_\_\_\_
17. arccos(-1) = \_\_\_\_\_\_\_\_\_\_
18. = \_\_\_\_\_\_\_\_\_\_

Find the exact value without the calculator. Circle your final answer!

1. 38. 39.

40. 42. 43.

44. 45. 46.

47. If the point (-8, 15) lies on the terminal side of , find sec.

48. If sec and tan, find cot.

Find two solutions of the equation. Give answers in degrees .

49. 50.