

## Trig. Final Exam, Study Guide

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|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 1. Convert angles measure from degree to radians or the other way                                                                     | Quiz 1, prob 2             |
| 2. An angle in standard position of a know size terminates in what quadrant                                                           | Quiz 1, prob 3             |
| <del>3. Find where a given trig equation crosses the x axis</del>                                                                     | <del>Quiz 13, prob 1</del> |
| 4. Solve a trigonometric equations and find either all solutions $0 \leq x < 2\pi$ or find all solutions on the real number line.     | Quiz 13, prob 7            |
| 5. Converting radians to degrees.                                                                                                     | Quiz 2, prob 15            |
| 6. When considering arc length, central angle measure and radius, be able to find any of these when given the other two.              | Quiz 2, prob 5             |
| 7. Rearrange the form of a trig expression using the identities on p 218 and 244                                                      | Quiz 12, prob 12           |
| 8. Given the equation of a trigonometric equation give the size and direction of either the horizontal or vertical shift.             | Quiz 12, pr; 1-4           |
| 9. Find the complement or supplement of an angle whose measure is given in radians                                                    | Quiz 3, prob 19            |
| <del>10. Be able to derive the identify <math>\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta</math></del>     | <del>class notes</del>     |
| 11. Give either the domain or range of either $\arcsin(x)$ or $\arccos(x)$                                                            | Quiz 11 prob 11            |
| 12. Something like $\sin(\arccos(\text{given angle}))$                                                                                | Quiz 11 prob 14            |
| <del>13. Give the period of a trig function by examining the graph of the function.</del>                                             | <del>Quiz 10 prob 14</del> |
| <del>14. Use trig identities to change the form of a given expression.</del>                                                          | <del>Quiz 10 prob 20</del> |
| 15. Find the value of a trig function given the value of a different function and a clue about what quadrant the angle terminates in. | Quiz 9 prob 11             |
| 16. Find a missing side in a right angle triangle labeled in the customary way.                                                       | Quiz 9 prob 18             |
| 17. Find the range of one of the inverse trig functions.                                                                              | Quiz 9 prob 16             |
| 18. Use one of the sum or difference formulas to find the exact value of the sin cos, or tan of an angle (formulas on p. 244)         | A15, prob 40               |
| <del>19. Know what the variables A, B, C, and D affect in the equation <math>y = A \sin B(x - C) + D</math></del>                     | <del>Quiz 7, prob 5</del>  |
| 20. Angles as rotations.                                                                                                              | Quiz 6 prob 13             |
| <del>21-22. Some true false questions about angles in standard position.</del>                                                        | <del>Quiz 6, 17-20</del>   |
| 23. Something about "co" functions                                                                                                    | Quiz 6 prob 21             |
| 24. Some fact about 30 60 90, or 45 45 90 triangle.                                                                                   | Quiz 4 prob 6              |
| 25. Another problem about arc length, radius, and central angle measure.                                                              | Quiz 4 prob 5.             |