

Name: _____

Unit 8 Study Guide: Trigonometry

Simplify.

1. $(7)(-13)$

2. $-18 \div -3$

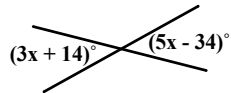
3. $24 + -36$

4. $-14 - 18$

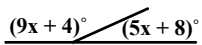
Evaluate.

5. R is between Q and S . $QR = 4x - 7$, $QS = 8x - 9$, and $RS = 2x + 4$. $QR = ?$

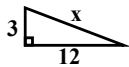
6. $x = ?$



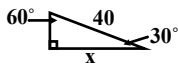
7. $x = ?$



8. $x = ?$



9. $x = ?$



Write your answer to four decimal places.

15. $\sin 48^\circ$

16. $\cos 39^\circ$

17. $\tan 71^\circ$

Write your answer rounded to the nearest degree.

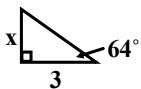
18. $\sin^{-1}(0.4731)$

19. $\cos^{-1}(0.5727)$

20. $\tan^{-1}(3.6251)$

Determine the value of x rounded to the nearest degree.

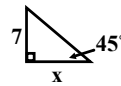
21.



22.



10. $x = ?$



11. Determine the area of the circle as a decimal to the nearest hundredth.



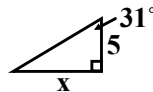
12. Determine the area of the triangle.



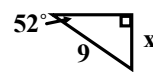
13. Determine the interior angle sum theorem of a hexagon (6-sided).

14. Two angles of a triangle are 37° and 45° . Determine the measure of the third angle.

23.



24.



25.

