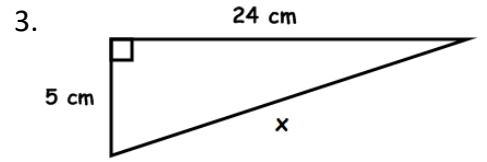
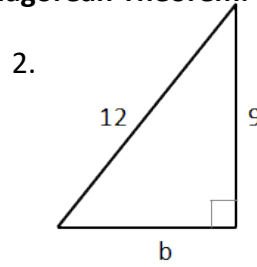
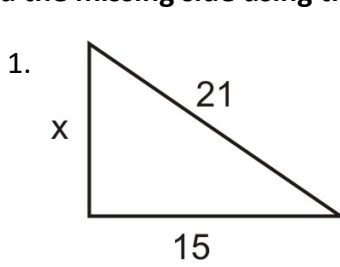


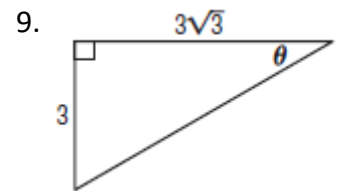
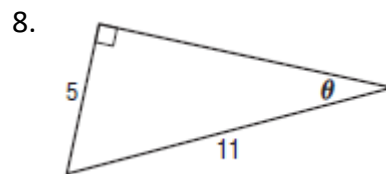
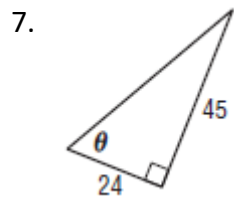
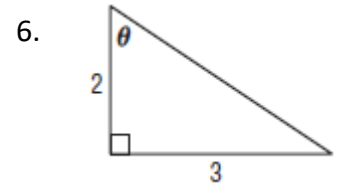
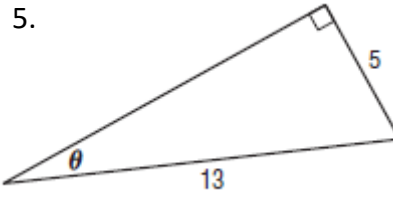
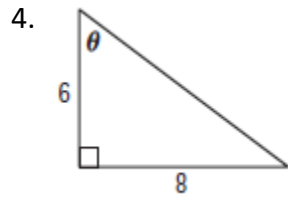
Name _____ Date _____ Period _____

8.1 Right Triangle Trigonometry (G.SRT.6)

Find the missing side using the Pythagorean Theorem.



Find the values of the six trigonometric functions for angle θ .



Use a calculator to find each value.

10. $\sin(9^\circ)$

11. $\cos(37^\circ)$

12. $\tan(48^\circ)$

13. $\cos(55^\circ)$

14. $\tan(72^\circ)$

15. $\sin(23^\circ)$

16. $\sec(23^\circ)$

17. $\csc(53^\circ)$

18. $\cot(102^\circ)$

19. $\sec(50^\circ)$

20. $\csc(86^\circ)$

21. $\cot(60^\circ)$

Simplify.

22. $(5x^2 - 2x + 1) - (4 - 7x + 10x^2)$

23. $(2x + 5)(3x - 4)$

Factor.

24. $10x^2 - 15x$

25. $5x^2 + 18x + 9$

26. $16x^2 - 25y^2$

27. $4x^2 + 20x + 25$