

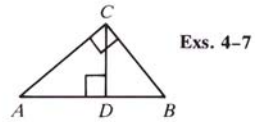
CHAPTER 8 REVIEW WORKSHEET

Find the geometric mean between the numbers.

1. 8 and 18 2. 9 and 80
 3. Simplify the radical expressions.
 a. $\sqrt{75}$ b. $\frac{2}{\sqrt{3}}$

In the diagram, $\angle ACB$ is a right angle and $\overline{CD} \perp \overline{AB}$.

4. $\triangle ADC \sim \triangle \underline{\quad? \quad}$, and $\triangle ADC \sim \triangle \underline{\quad? \quad}$.
 5. CD is the geometric mean between $\underline{\quad? \quad}$ and $\underline{\quad? \quad}$.
 6. CB is the geometric mean between $\underline{\quad? \quad}$ and $\underline{\quad? \quad}$.
 7. If $AD = 9$ and $CD = 6$, then $DB = \underline{\quad? \quad}$.



Tell whether a triangle formed with sides having the lengths named is acute, obtuse, or right. If a triangle can't be formed, write *not possible*.

8. 2, 7, 10 9. 6, 6, 2 10. 5, 12, 13 11. 5, 8, 15

Find the value of x .

12. 13. 14. 15.

For Exercises 16–23 find angle measures and lengths correct to the nearest integer.

16. 17. 18. 19.
20. 21. 22.

23. A building casts a shadow 40 ft long when the sun's angle of elevation is 58° . Find the height of the building.

1)	2)	3)
4-6: NO WORK	7)	8)
9)	10)	11)
12)	13)	14)
15)	16)	17)
18)	19)	20)
21)	22)	23)