Triangle Trigonometry Ch. 9   Name _____

Determine which formula you would use to solve the problem and state the case of the given.
(SSS, SAS, ASA, SSA, or AAS). Then, solve each triangle. (answers are on the back)

Law of Sines	$\dfrac{\sin A}{a} = \dfrac{\sin B}{b} = \dfrac{\sin C}{c}$
Law of Cosines	$c^2 = a^2 + b^2 - 2ab\cos C$ or
	$\cos C = \dfrac{a^2 + b^2 - c^2}{2ab}$

1. $\angle B = 30°, \angle C = 45°, b = 9$ 1. _____

2. $\angle C = 25°, b = 3, c = 2$ 2. _____

3. $\angle A = 60°, b = 8, c = 5$ 3. _____

4. $a = 12, b = 4, \angle A = 76°$ 4. _____

5. $x = 8, y = 7, z = 13$ 5. _____

6. $t = 16, s = 14, \angle R = 120°$ 6. _____

7. $\angle B = 50°, a = 3, c = 8$ 7. _____

8. $\angle A = 60°, \angle B = 75°, c = 10$ 8. _____

9. $a = 10, b = 11, c = 12$ 9. _____

10. $\angle B = 95°, b = 13, c = 10$ 10. _____