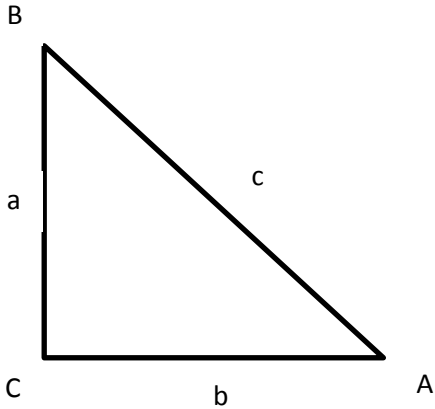


Dangelmaier – Name \_\_\_\_\_

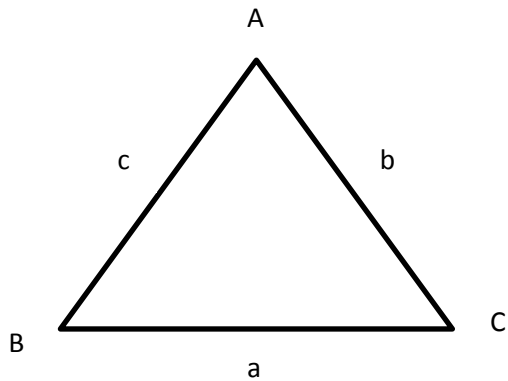
Date \_\_\_\_\_

Period \_\_\_\_\_



*Directions:* The angles of the right triangle are labeled A, B, and C, where C = 90°. The sides are labeled a, b, and c. Solve for the unknowns.

1. a = 10 b = 5 c = \_\_\_\_\_ A = \_\_\_\_\_ B = \_\_\_\_\_
2. a = 25 b = 2 c = \_\_\_\_\_ A = \_\_\_\_\_ B = \_\_\_\_\_
3. a = \_\_\_\_\_ b = 12.5 c = 17.25 A = \_\_\_\_\_ B = \_\_\_\_\_
4. a = 3 b = 6.5 c = \_\_\_\_\_ A = \_\_\_\_\_ B = \_\_\_\_\_
5. a = 11.85 b = \_\_\_\_\_ c = 50.16 A = \_\_\_\_\_ B = \_\_\_\_\_
6. A = 33° B = \_\_\_\_\_ a = 7.77 b = \_\_\_\_\_ c = \_\_\_\_\_
7. B = 60° c = 14.44 A = \_\_\_\_\_ b = \_\_\_\_\_ a = \_\_\_\_\_
8. a = 200 b = 90 c = \_\_\_\_\_ A = \_\_\_\_\_ B = \_\_\_\_\_



Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

9. A = 55° B = 45° C = \_\_\_\_\_ a = 16 b = \_\_\_\_\_ c = \_\_\_\_\_
10. A = \_\_\_\_\_ B = 25° C = 75° a = \_\_\_\_\_ b = \_\_\_\_\_ c = 36