

# Section 7.2 Explore the Cosine Law

| Triangle | Triangle Side Lengths (cm)                                            | $c^2$ | $a^2 + b^2$ | $2ab \cos C$ | $a^2 + b^2 - 2ab \cos C$ |
|----------|-----------------------------------------------------------------------|-------|-------------|--------------|--------------------------|
| #1       | $a = 5, b = 6, c = 7$                                                 |       |             |              |                          |
| #2       | $a = \rule{1cm}{0.4pt}, b = \rule{1cm}{0.4pt}, c = \rule{1cm}{0.4pt}$ |       |             |              |                          |
| #3       | $a = \rule{1cm}{0.4pt}, b = \rule{1cm}{0.4pt}, c = \rule{1cm}{0.4pt}$ |       |             |              |                          |