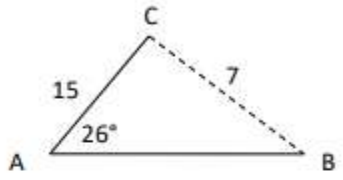
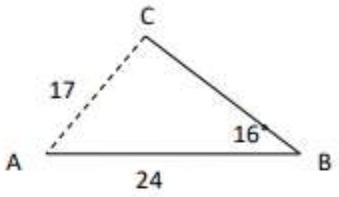
Pre-Calculus

Solving SSA Ambiguous Triangles

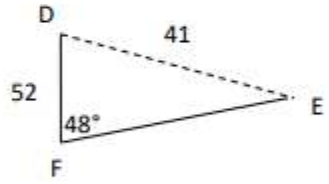
1. For ΔABC, $a = 7, b = 15$, and $m\angle A = 26°$. Find all possible $m\angle B$ to the nearest degree.



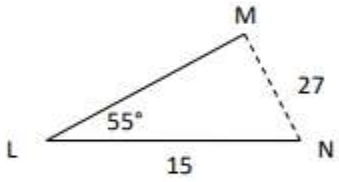
2. For ΔABC, $b = 17, c = 24$, and $m\angle B = 16°$. Find all possible $m\angle C$ to the nearest degree.



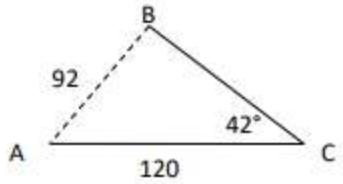
3. For ΔDEF, $e = 52, f = 41$, and $m\angle F = 48°$. Find all possible $m\angle E$ to the nearest degree.



4. For ΔLMN, $l = 27, m = 15$, and $m\angle L = 55°$. Find all possible $m\angle M$ to the nearest degree.



5. For ΔABC, $b = 120, c = 92$, and $m\angle C = 42°$. How many triangles can be formed?



6. For ΔDEF, $d = 6, e = 24$, and $m\angle E = 38°$. How many Triangles can be formed?