Algebra 2 Name_____

Law of Sines - Ambiguous Case

Find three problems for which "no triangle" can be formed. Completely solve any three "one triangle" problems and any three "two triangle" problems.

1) $m\angle B = 51°$, $a = 33$, $b = 8$

2) $m\angle C = 53°$, $b = 14$, $c = 20$

3) $m\angle B = 95°$, $a = 23$, $b = 41$

4) $m\angle A = 123°$, $c = 34$, $a = 41$

5) $m\angle A = 152°$, $c = 33$, $a = 33$

6) $m\angle C = 88°$, $b = 10$, $c = 22$

7) $m\angle C = 28°$, $b = 33$, $c = 18$

8) $m\angle C = 60°$, $b = 34$, $c = 31$

9) $m\angle B = 62°$, $a = 32$, $b = 29$

10) $m\angle A = 88°$, $c = 23$, $a = 26$

11) $m\angle B = 68°$, $a = 22$, $b = 27$

12) $m\angle A = 21°$, $c = 32$, $a = 21$

13) $m\angle A = 136°$, $c = 12$, $a = 27$

14) $m\angle A = 20°$, $c = 9$, $a = 6$

15) $m\angle A = 27°$, $c = 22$, $a = 6$

16) $m\angle A = 51°$, $c = 20$, $a = 19$

17) $m\angle A = 66°$, $c = 35$, $a = 33$

18) $m\angle A = 17°$, $c = 29$, $a = 20$

19) $m\angle A = 48°$, $c = 35$, $a = 13$

20) $m\angle B = 128°$, $a = 20$, $b = 29$