

Which do I use?

Date _____ Period _____

Identify which law to use and then Solve each triangle. Round your answers to the nearest tenth.

1) In $\triangle XYZ$, $y = 19$ yd, $z = 25$ yd, $m\angle X = 120^\circ$

2) In $\triangle ZXY$, $z = 18.2$ cm, $x = 9.1$ cm, $y = 12.2$ cm

3) In $\triangle ZXY$, $x = 23$ in, $z = 11$ in, $y = 21$ in

4) In $\triangle HPK$, $m\angle H = 116^\circ$, $k = 28$ cm, $h = 22$ cm

5) In $\triangle ABC$, $m\angle A = 123^\circ$, $m\angle B = 34^\circ$, $c = 14$ km

6) In $\triangle STR$, $m\angle S = 47^\circ$, $r = 35$ yd, $s = 34$ yd

7) $b = 29$ in, $c = 30$ in, $a = 15$ in

8) $b = 18$ m, $a = 25$ m, $c = 10$ m

9) $a = 17.5$ in, $c = 22.9$ in, $b = 24.7$ in

10) In $\triangle QRP$, $m\angle Q = 138^\circ$, $m\angle R = 9^\circ$, $q = 43$ cm

11) In $\triangle ZXY$, $m\angle Z = 85^\circ$, $y = 34$ ft, $z = 4$ ft

12) In $\triangle RPQ$, $m\angle P = 78^\circ$, $r = 22$ cm, $p = 29$ cm