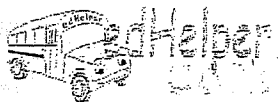


Name _____



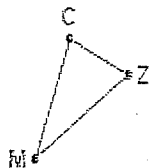
Date _____

The Law of Sines

(Answer ID # 1064323)

Use the law of sines to solve for the unknown. Assume that all of the angles are acute.

1.



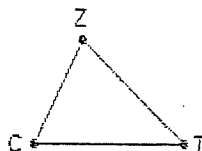
$$\angle M = 33^\circ$$

$$\underline{MZ} = 21$$

$$\underline{ZC} = 12$$

$$\angle C = \underline{\hspace{2cm}}^\circ$$

2.



$$\angle Z = 70^\circ$$

$$\underline{CZ} = 35.6$$

$$\underline{CT} = 48.1$$

$$\angle C = \underline{\hspace{2cm}}^\circ$$

3.



$$\angle K = 88^\circ$$

$$\angle R = 66^\circ$$

$$\underline{PR} = 6.1$$

$$\underline{PK} = \underline{\hspace{2cm}}$$

4.



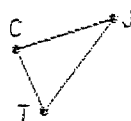
$$\angle U = 78^\circ$$

$$\angle M = 75^\circ$$

$$\underline{UM} = 74$$

$$\underline{LM} = \underline{\hspace{2cm}}$$

5.



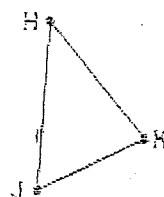
$$\angle C = 82^\circ$$

$$\underline{TJ} = 29$$

$$\underline{JC} = 26$$

$$\angle J = \underline{\hspace{2cm}}^\circ$$

6.



$$\angle K = 76^\circ$$

$$\angle J = 61^\circ$$

$$\underline{JK} = 12$$

$$\underline{KH} = \underline{\hspace{2cm}}$$

7.



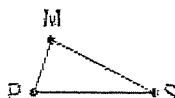
$$\angle T = 76^\circ$$

$$\underline{PV} = 40.2$$

$$\underline{TV} = 28.2$$

$$\angle V = \underline{\hspace{2cm}}^\circ$$

8.



$$\angle S = 26^\circ$$

$$\angle P = 72^\circ$$

$$\underline{SM} = 20$$

$$\underline{PM} = \underline{\hspace{2cm}}$$

9.



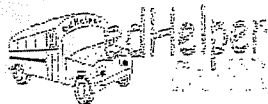
$$\angle B = 80^\circ$$

$$\angle Z = 25^\circ$$

$$\underline{ZB} = 44$$

$$\underline{BG} = \underline{\hspace{2cm}}$$

Name _____

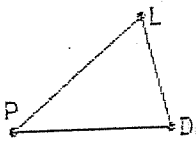
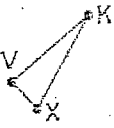
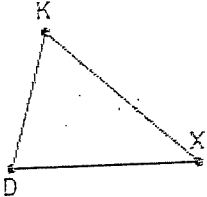
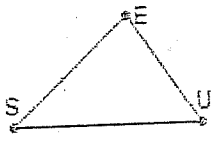


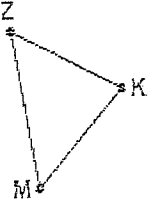
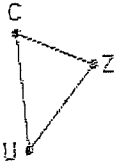
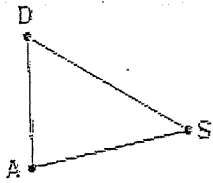


Date _____

The Law of Sines

(Answer ID # 0193994)

Use the law of sines to find all of the unknown sides and angles in each triangle. Assume that all of the angles are acute.

<p>1.</p>  <p> $\angle D = 75^\circ$ $\overline{PL} = 104.4$ $\overline{PD} = 98.4$ </p>	<p>2.</p>  <p> $\angle K = 21^\circ$ $\angle X = 74^\circ$ $\overline{XK} = 75.7$ </p>	<p>3.</p>  <p> $\angle X = 41^\circ$ $\angle D = 75^\circ$ $\overline{XK} = 138.7$ </p>
<p>4.</p>  <p> $\angle U = 55^\circ$ $\overline{SE} = 60.8$ $\overline{SU} = 73.5$ </p>	<p>5.</p>  <p> $\angle J = 82^\circ$ $\angle Y = 39^\circ$ $\overline{YN} = 14.9$ </p>	<p>6.</p>  <p> $\angle J = 36^\circ$ $\overline{JS} = 72$ $\overline{RS} = 48$ </p>
<p>7.</p>  <p> $\angle K = 75^\circ$ $\angle Z = 53^\circ$ $\overline{KZ} = 26$ </p>	<p>8.</p>  <p> $\angle Z = 74^\circ$ $\overline{UC} = 98.3$ $\overline{ZC} = 71.7$ </p>	<p>9.</p>  <p> $\angle S = 42^\circ$ $\angle D = 57^\circ$ $\overline{SD} = 110.9$ </p>