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Rhombuses and Kites with Right Triangles
Date $\qquad$ Period $\qquad$
Find the measure of the line segment indicated.

1) $S Z=15$
$T Z=8$
Find $R U$

2) $V M=12$
$U M=5$
Find $U X$

3) $W Y=48$
$V Y=26$
$X M=13$
Find $V X$

4) $K M=10 \sqrt{3}$
$m \angle L M N=60^{\circ}$
Find $L N$

5) $C D=26$
$m \angle D C F=60^{\circ}$
Find $C Y$

6) $K M=20$
$L H=11 \sqrt{3}$ $m \angle J K H=60^{\circ}$ Find $J L$


Find the measure of the angle indicated. Round your answer to the nearest tenth degree.
7) $V F=20$
$U W=42$
Find $m \angle V W X$

8) $T Q=15$
$T R=20$
$X R=11$
Find $m \angle X T S$

$\qquad$

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1) $S Z=15$
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Find $U X$

13
3) $W Y=48$
$V Y=26$
$X M=13$
Find $V X$


23
4) $K M=10 \sqrt{3}$
$m \angle L M N=60^{\circ}$
Find $L N$


10
5) $C D=26$
$m \angle D C F=60^{\circ}$
Find $C Y$

6) $K M=20$
$L H=11 \sqrt{3}$
$m \angle J K H=60^{\circ}$
Find $J L$

$21 \sqrt{3}$

## $13 \sqrt{3}$

Find the measure of the angle indicated. Round your answer to the nearest tenth degree.
7) $V F=20$
$U W=42$
Find $m \angle V W X$

8) $T Q=15$
$T R=20$
$X R=11$
Find $m \angle X T S$

$53.1^{\circ}$
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