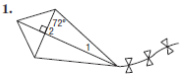
1.



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2.

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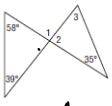
Find each measure.

3. $m\angle 1$
4. $m\angle 2$
5. $m\angle 3$



1
39
58
97

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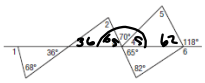
Find each measure.

6. $m\angle 1$ $68 + 36 = 104$
7. $m\angle 4$ $180 - (68 + 70) = 45$
8. $m\angle 3$ Vertical 65
9. $m\angle 2$ $180 - (36 + 65) = 79$
10. $m\angle 5$ $180 - (45 + 62) = 73$
11. $m\angle 6$ $65 + 82 = 147$



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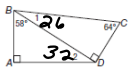
Find each measure.

12. $m\angle 1$
13. $m\angle 2$



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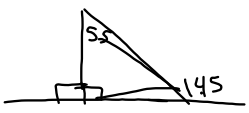

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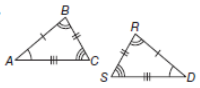
1.



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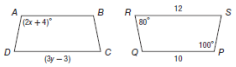
Polygon $ABCD \cong$ polygon $PQRS$.

3. Find the value of x.

4. Find the value of y.



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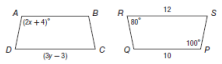
5. **PROOF** Write a two-column proof.

Given: $\angle P \cong \angle R$, $\angle PSQ \cong \angle RSQ$, $\overline{PQ} \cong \overline{RQ}$, $\overline{PS} \cong \overline{RS}$

Prove: $\triangle PQS \cong \triangle RQS$



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$D=\sqrt{(x-x)^2+(y-y)^2}$

4-4 Practice

Proving Triangles Congruent—SSS, SAS

Determine whether $\triangle DEF \cong \triangle PQR$ given the coordinates of the vertices. Explain.

1. $D(-6, 1)$, $E(1, 2)$, $F(-1, -4)$, $P(0, 5)$, $Q(7, 6)$, $R(5, 0)$

$(-6,1)(1,2)$
$DE \sqrt{49+1}$
$\sqrt{50}$

$EF\ (1,2)(-1,-4)$
$\sqrt{4+36} = \sqrt{40}$

DF
$(-6,1)(-1,-4)$
$\sqrt{25+25} = \sqrt{50}$

$(0,5)(7,6)$
PQ
$\sqrt{49+1} = \sqrt{50}$

QR
$(7,6)(5,0)$
$\sqrt{4+36}$

PR
$(0,5)(5,0)$
$\sqrt{25+25}$

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4-4 Practice

Proving Triangles Congruent—SSS, SAS

Determine whether $\triangle DEF \cong \triangle PQR$ given the coordinates of the vertices. Explain.

2. $D(-7, -3)$, $E(-4, -1)$, $F(-2, -5)$, $P(2, -2)$, $Q(5, -4)$, $R(0, -5)$

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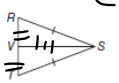
3. Write a flow proof.

Given: $\overline{RS} \cong \overline{TS}$
V is the midpoint of $\overline{RT}$.

Prove: $\triangle RSV \cong \triangle TSV$



CPCTC

S	R
① ≅	Given
② $\overline{RV} \cong \overline{VT}$	Def of m.p
③ $\overline{VS} \cong \overline{VS}$	Reflexive
④ $\triangle RSV \cong \triangle TSV$	SAS

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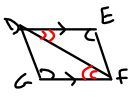
3

S	R
① $\overline{DE} \parallel \overline{FG}$, $\angle E \cong \angle G$	Given
② $\angle EDF \cong \angle GFD$	ALT int $\angle$s
③	ASA



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① $\overline{AC} \cong \overline{AD}$

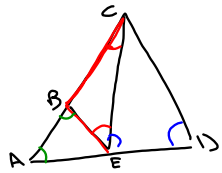
$\angle ACD \cong \angle ADC$

② $\overline{BE} \cong \overline{BC}$

$\angle BEC \cong \angle BCE$

3 $\overline{EB} \cong \overline{EA}$

4 $\overline{CE} \cong \overline{CD}$



1

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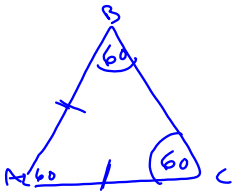
5



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7 $x = 14$

$2x+4 = 3x-10$

32

$2x + 40 = 180$

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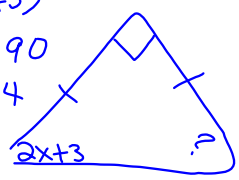
$2(2x+3)$

$4x+6=90$

$4x=84$

$x=21$



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9.

① ~~Given~~ $\overline{CD} \cong \overline{CG}$, $\overline{DE} \cong \overline{GF}$	Given
② $\angle D \cong \angle G$	Def of an Isosceles $\triangle$
③ $\triangle CDE \cong \triangle CGF$	SAS
④ $\overline{CE} \cong \overline{CF}$	CPCTC

Happy Halloween

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