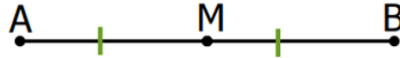


Warm Up: Skeleton Proofs (Fill in the blank proofs)

Ex. 1 Given $AB = 20$, M is the midpoint of \overline{AB} .

Prove: $AM = 10$.

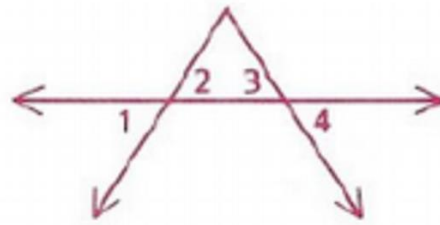


Statements:	Reasons:
1. $AB = 20$	1. _____
2. M is midpt of \overline{AB}	2. _____
3. $\overline{AM} \cong \overline{MB}$	3. _____
4. $AM + MB = AB$	4. _____
5. $AM + AM = 20$	5. _____
6. $2AM = 20$	6. _____
7. $AM = 10$	7. _____

Ex. 2.

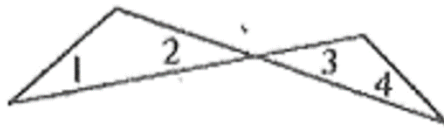
Given: $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$



Statements:	Reasons:
1. $\angle 2 \cong \angle 3$	1. _____
2. $\angle 2 \cong \angle 1$	2. _____
3. $\angle 4 \cong \angle 3$	3. _____
4. $\angle 1 \cong \angle 4$	4. _____

Ex. 3. *Given:* $\angle 1 = \angle 2$
 $\angle 3 = \angle 4$
Prove: $\angle 1 = \angle 4$



1. _____

1. Given

2. _____

2. _____

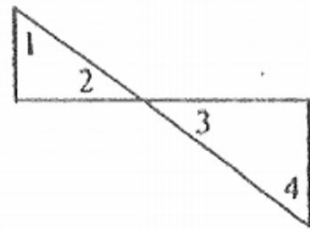
3. _____

3. substitution

4. _____

4. _____

Ex. 4. *Given:* $\angle 1$ and $\angle 2$ are complements.
 $\angle 3$ and $\angle 4$ are complements.
Prove: $\angle 1 = \angle 4$



1. _____

1. Given

2. _____

2. def of _____

3. _____

3. Substitution

4. _____

4. Vertical angles are _____

5. _____

5. Substitution

6. _____

6. Subtraction