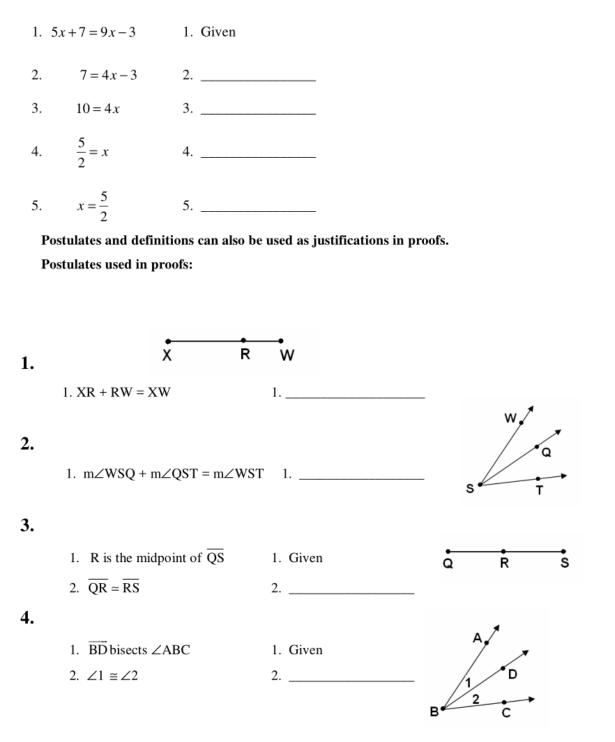
Geometry - Chapter 2 Review

Name:

ame the property that justifies the statement.

- 1. If AB + 5 = DE + 5, then AB = DE.
- 2. $m \angle ABC = m \angle ABC$
- 3. If 3x = 9, then x = 3.
- 4. If 15 = CD, then CD = 15.
- 5. If $\angle W \cong \angle Q$ and $\angle Q \cong \angle S$, then $\angle W \cong \angle S$.

Determine the reason or justification for each new statement.



Given: $\angle A$ is complementary to $\angle C$, m $\angle A = 30^{\circ}$ Prove: m $\angle C = 60^{\circ}$

Pf:	Statements	Reasons
	1. $\angle A$ is complementary to $\angle C$	1
	2. $m \angle A + m \angle C = 90^{\circ}$	2
	3. m $\angle A = 30^{\circ}$	3
	4. $30^{\circ} + m\angle C = 90^{\circ}$	4
	5. m $\angle C = 60^{\circ}$	5

Write a two column proof:

Given: $m \angle QTR = (2x+18)^{\circ}$ $m \angle RTS = (x+6)^{\circ}$ $m \angle QTS = 42^{\circ}$ Prove: x = 6

