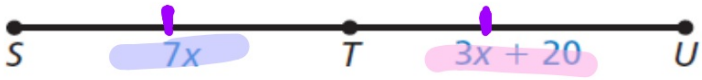
5. Six steps of a two-column proof are shown. Copy and complete the proof.

Given T is the midpoint of $\overline{SU}$.

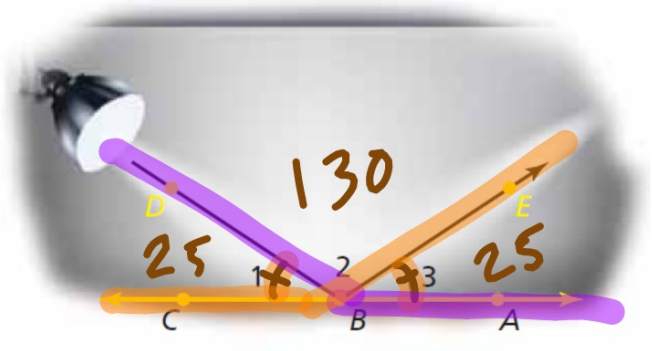
Prove $x = 5$



STATEMENTS	REASONS
1. T is the midpoint of $\overline{SU}$.	1. Given
2. $\overline{ST} \cong \overline{TU}$	2. Definition of midpoint
3. $ST = TU$	3. Definition of congruent segments
4. $7x = 3x + 20$	4. Substitution Property
5. $4x = 20$	5. Subtraction Property of Equality
6. $x = 5$	6. Division Property

6.

You reflect the beam of a spotlight off a mirror lying flat on a stage, as shown. Determine whether $m\angle DBA = m\angle EBC$.



Statements	Reasons
1. $m\angle 1 = m\angle 3$	Given
2. $m\angle DBA = m\angle 3 + m\angle 2$ $155 = 25 + 130$	Angle Addition Postulate
3. $m\angle DBA = m\angle 1 + m\angle 2$ $155 = 25 + 130$	Substitution Property of Equality
4. $m\angle 1 + m\angle 2 = m\angle EBC$ $25 + 130 = 155$	Angle Addition Postulate
5. $m\angle DBA = m\angle EBC$ $155 = 155$	Transitive Property of Equality

[redacted]

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