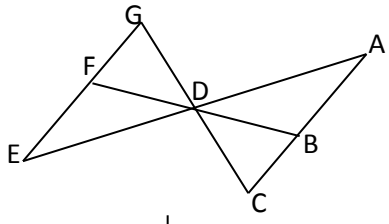
Geometry (G.CO.9) Name: _____

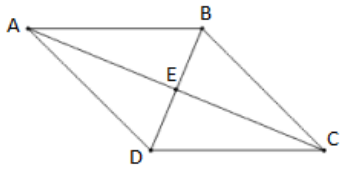
Unit One B – Parallel Line Practice #4 (HW26) Date: _____ Period: _____

1. Given: $\overline{GC}$ bisects $\overline{AE}$; $\overline{GE} \parallel \overline{AC}$
   Prove: $\Delta EDG \cong \Delta ADC$



Statements	Reasons

2. Given: $\overline{AB} \parallel \overline{DC}$; $\angle ABD \cong \angle ADB$
   Prove: $\overline{DB}$ bisects $\angle ADC$

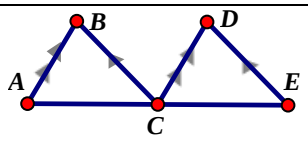


Statements	Reasons

3. **GIVEN:**

$\overline{AB} \| \overline{CD}$ & $\overline{BC} \| \overline{DE}$ &

C is the midpoint of $\overline{AE}$

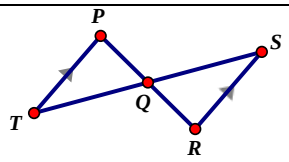


PROVE: $\Delta ABC \cong \Delta CDE$

Statements	Reasons

4. **GIVEN:**

$\overline{PT} \| \overline{SR}$ & $\overline{PT} \cong \overline{RS}$



PROVE: $\Delta PQT \cong \Delta RQS$

Statements	Reasons

5. a. Solve for x and y. $3x + 5y = 6$
$2x + 7 = 4y$

b. Solve for x. $x^2 - 6x = 27$