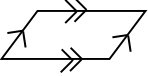
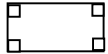

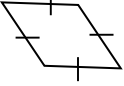
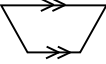

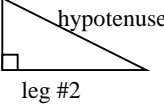
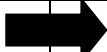
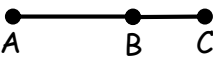
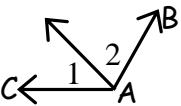
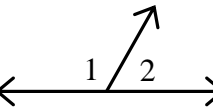
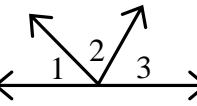
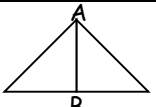
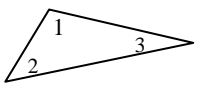
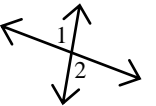

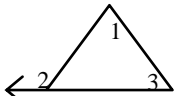
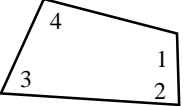
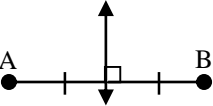
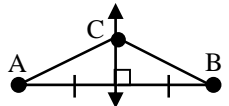


## Justifications for Proofs

| IF...   | THEN   | Justification |
|---|--|---------------|
| Parallel ( $\parallel$ )  | Lines have the same slope  |               |
| Perpendicular ( $\perp$ )   | Lines intersect to form a $90^\circ$ angle   |               |
| Parallelogram   |  Quadrilateral w/ BOTH pairs of opposite sides parallel         |               |
| Rectangle   |  Quadrilateral w/ four right angles                             |               |
| Square  |  Quadrilateral w/ four right angles AND all sides equal lengths |               |
| Rhombus   |  Quadrilateral w/ all sides equal lengths                       |               |
| Trapezoid   |  Quadrilateral w/ only ONE pair of parallel sides              |               |
| Midpoint  | Point that splits a segment into 2 $\cong$ segments  |               |
| Bisect  | Cuts an object (angle or segment) into 2 $\cong$ parts   |               |
| Isosceles Triangle  |  Triangle w/ TWO sides of equal length                        |               |
| Equilateral   | All sides are $\cong$  |               |
|  | $(\text{leg\#1})^2 + (\text{leg\#2})^2 = (\text{hypotenuse } e)^2$   |               |

| IF...  | THEN  | Justification |
|---|---|---------------|
| $a = b \ \& \ b = c$  | $a = c$   |               |
|         | $AB + BC = AC$  |               |
|        | $m\angle 1 + m\angle 2 = m\angle BAC$   |               |
| $\cong \Delta s$  | $\cong$ parts   |               |
|         | $m\angle 1 + m\angle 2 = 180^\circ$   |               |
|         | $m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$   |               |
|         | $\overline{AB} \cong \overline{AB}$   |               |
|       | $m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$   |               |
|       |  $m\angle 1 = m\angle 2$ |               |
|      |   |               |
|       |   |               |
|       |                          |               |