**Geometry – Bellwork #8 Date: \_\_\_\_\_\_\_\_\_\_**

Segment Addition Postulate

1. I is between W and N. Find the value(s) of *x* and the length of IN if WI = *x2 + 2x*, IN = *x2 – 5*, and WN = *3x2 – 3x – 11.*

2. S is the midpoint of segment TU. If TS = -*2x – 11* and TU = *x2 + 4x +20*, find SU.

3. Find the value(s) of *r* if LE = *r2 – 2r – 6*, EG = *3r + 10*, LG = *2r2 – 6r + 16*, and E is between segment LG.