UNIT 9: Quadrilaterals QUEST

1. In parallelogram MATH, the measure of \angle T exceeds two times the measure of \angle H by 30. What is the measure of the largest angle of the parallelogram? 2. In parallelogram TRIG, $m \angle R = 2x + 19$ and $m \angle G = 4x - 17$. What is $m \angle T$? 3. The two diagonals of a rectangle ABCD intersect at point E. In addition, $\angle AEB =$ 120 \circ . Find the measure of ∠ ADE. 4. In rectangle QRST, diagonals QS and RT meet at point U. If the measure of QU = 3x +4 and US = x + 20, what are the value of x and the lengths of QU, QS, and RT? 5. In rhombus ABCD, the measure of \angle ABC = 120 $^{\circ}$. If AB = 10 find the length of the shorter diagonal BD.

