

1. Carefully sketch each of the following, and label each with notation to indicate what is written.

- a) $\overrightarrow{AB} \parallel \overrightarrow{NT}$
- b) $\overrightarrow{RS} \perp \overrightarrow{DS}$
- c) $\angle VTA \cong \angle VTB$
- d) $\overline{GR} \cong \overline{DR}$
- e) \overline{NQ} is a chord and \overrightarrow{PQ} is a tangent.

2. Find the following for the line segment below.

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- a) slope
- b) slope of the perpendicular
- c) midpoint
- d) equation
- e) equation of the perpendicular bisector

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