

$$1. \overline{AC} \cdot \overline{DB} = \overline{HK} \cdot \overline{DB} = HK \times DB = HK\sqrt{58}$$

$$2. \overline{AC} \cdot \overline{DB} = \overline{AC} \cdot (\overline{DC} + \overline{CB}) = \overline{AC} \cdot \overline{DC} + \overline{AC} \cdot \overline{CB} \\ = DC^2 - BC^2 = 40$$

$$3. HK = \frac{40}{\sqrt{58}}$$