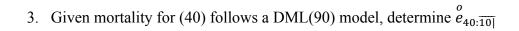
Each problem is worth 10 points. Show all work for full credit, and use correct notation. Simplify answers completely. See other side for additional problems.

1. Given
$$_t p_{\overline{xy}} = e^{-.04t}$$
, determine $\stackrel{o}{e}_{\overline{xy}}$

2. Determine the value of $T_{\overline{xy}}$ if $T_x + T_y = 40$ and $T_x T_y = 398.56$.



4. Given
$$_t p_{xy} = (1.03)^{-t}$$
, determine $e_{xy:\overline{15}|}$

5. Given
$$q_{80}=.10$$
 and $q_{81}=.11$ determine $e_{80:\overline{2}|}$