- 2. [8 points] The parts of this problem are **unrelated** to each other. For each part find your answers in **exact** form.
 - **a.** [3 points] Let $Q = \frac{7}{4}e^{0.1(t-2)}$. Find the initial value and the growth factor of Q.

Initial value:

Growth factor:

b. [5 points] Let p(x) be a power function that passes through the points (5,8) and (10,32). Find a formula for p(x). Be sure to **show all your work**.

 $p(x) = \underline{\hspace{1cm}}$