Ch2, qn14, -許傑 - 313707025

a.,
$$\widehat{wage} = -4.88 + 1.80 \ EDUC = 19.74$$
, $19.74 + 4.88 = 1.8 \ EDUC$, $EDUC = \frac{19.74 + 4.88}{1.8} \approx 13.68$, $\epsilon = 1.8 \times \frac{13.68}{19.74} \approx 1.8 \times 0.69 \approx 1.25$;

b.,
$$\widehat{wage} = 2.46(13.68) - 10.76 = 22.87$$

 $se(\epsilon) = \frac{13.68}{22.87} \times 0.16 \approx 0.598 \times 0.16 \approx 0.096;$

С.,

for cities: $\widehat{wage} = -10.76 + 2.46 \times Yr$

For 12 years: $\widehat{wage} = -10.76 + 2.46 \times 12 = 18.76$

For 16 years: $\widehat{wage} = -10.76 + 2.46 \times 16 = 28.60$

for rural: $\widehat{wage} = -10.76 + 1.8 \times Yr$

For 12 years: $\widehat{wage} = -10.76 + 1.8 \times 12 = 16.72$

For 16 years: $\widehat{wage} = -10.76 + 1.8 \times 16 = 23.92$