A company selling widgets has found that the number of items sold x depends upon the price p at which they're sold, according the equation $x=\frac{20000}{\sqrt{2v+1}}$.

Due to inflation and increasing health benefit costs, the company has been increasing the price by \$2 per month. Find the rate at which revenue is changing when the company is selling widgets at \$190 each.

dollars per month

Europe variables

$$\frac{dp}{dt} = \frac{1}{2} |_{vestle}$$

Persone = P. X

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P = \frac{20000P}{12p+1}

\[
\begin{align*}
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when the company it sells vissets @ \$190