(Debug)
$$ln[12]:= (* hfs = \frac{10.65 \ Q^{1.852} \ L}{C^{1.852} D^{4.871}} *)$$

(Debug)
$$ln[13]:= (* q = V A *)$$

(Debug)
$$ln[14]:= q = 0.23 Pi \frac{(137.2 \times 10^{-3})^2}{4};$$

(Debug) In[15]:= hfs =
$$\frac{10.65 \, q^{1.852} \, \left(3 + 2 + 3 + 52 + 5 + 1.2\right)}{150^{1.852} \times 0.1372^{4.871}};$$

(Debug)
$$ln[16]:= npshd = 10.33 - .0012 \times 1000 - hgs - hfs - .43$$

$$(\texttt{Debug}) \ \mathsf{Out} [\texttt{16}] \texttt{=} \ \textbf{8.67192} \ - \ hgs$$

(Debug) Out[17]=
$$\{ \{ hgs \rightarrow 4.27192 \} \}$$

(Debug) Out[20]=
$$\{ \{ deltaX \rightarrow 2.27192 \} \}$$