$$E = \begin{cases}
\frac{60}{260} & \frac{20}{200} \\
\frac{60}{260} & \frac{20}{200}
\end{cases}$$

Exact answer 
$$E(z) = \frac{6}{\pi \epsilon_0} tan^{-1} \left[ \frac{\omega^2}{4z} \right] \frac{Z}{\sqrt{z^2 + \omega y_2}} \frac{Z}{\omega} (z)$$

$$E(z) = \frac{6}{\pi \epsilon_0} tan^{-1} \left[ \frac{\omega^2}{4z} \right] \frac{1}{\sqrt{\omega^2 (z^2 / \omega^2 + 1)}}$$

$$[-(2)] = \frac{60}{1120} \left[ \frac{(\omega)}{2} \frac{1}{4\sqrt{\frac{2^{3}}{4^{3}}}} \right] \left[ \frac{(\omega$$