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Solution: $x \ q3 \ Fe \ 31 \ Fe \ 32 \ q1 \ q2 \ y \ Fe \ 3 \ =F \ e \ 31 \ +F \ e \ 32$ Forces $F \ e \ 31$ and $F \ e \ 32$ are equal in magnitude, with $F \ e \ 31$ pointing along 45 above the x axis and $F \ e \ 32$ pointing along 45 below the x axis. The "y components cancel. Hence, $F \ e \ 3$ is along +x". Fawwaz T. Ulaby and Umberto Ravaioi, Fundamentals of Applied Electromagnetics c 2019 ...

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Solution: (a) z-direction because the signs of the coefficients of t and z are both positive. (b)From the given expression, $w = p \ 107 \ (\text{rad/s})$: Hence, $f = w \ 2\pi = p \ 107 \ 2\pi = 5 \ 106 \ \text{Hz} = 5 \ \text{MHz}$: (c)From the given expression, $2\pi \ l = p \ 15$: Hence $l = 30 \ \text{m}$. (d) $u \ p = f \ l = 5 \ 106 \ 30 = 1.5 \ 108 \ \text{m/s}$. Fawwaz T. Ulaby and Umberto Ravaioi, Fundamentals of Applied ...

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