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Solution Solution: $x = q_3 \hat{e}_1 - q_2 \hat{e}_2$ $y = F e_3 = F e_3$
 $31 + F e_32$ 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 \hat{y} components cancel. Hence, $F e_3$ is along $+\hat{x}$.

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scales. It is times as strong as the nuclear force. Fundamentals Of Applied Electromagnetics 7th Edition ... Solutions Fundamentals of Applied Electromagnetics, 5e Ulaby (PDF) Solutions Fundamentals of Applied Electromagnetics ... Solution: (a) The green wave has an amplitude of 5 V and a period $T = 8$ s. Its peak occurs earlier than that of the red wave; hence, its constant phase angle is positive relative to that of the red wave. A full cycle of 8 s corresponds to 2π in phase. The green wave crosses the time axis 1 s sooner than the red wave. Fundamentals of Applied Electromagnetics The solution given by (1.8) leads to (1.3). (b) At $\omega t = \pi/4$, $y_1(x;t) = A \cos(\pi/4 - \beta x) = A \cos \pi/4 - 2\pi x / \lambda$; $y_2(x;t) =$

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$\text{Acos}(wt+bx) = \text{Acos } p/4 + 2px$ | : Plots of y_1 , y_2 , and y_3 are shown in Fig. P1.7(b). Figure P1.7: (b) Plots of y_1 , y_2 , and y_3 versus x at $wt = p/4$. Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall Fundamentals of Applied Electromagnetics PDF Fundamentals of Applied Electromagnetics (7th Edition) by (PDF) PDF Fundamentals of Applied Electromagnetics (7th ... Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall Exercise 1.3 The electric field of a traveling electromagnetic wave is given by $E(z,t) = 10 \cos(\pi \times 10^7 t + \pi z/15 + \pi/6)$ (V/m). Exercise Solutions - Applied Electromagnetics/7e by Ulaby and Welcome.

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