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Write the four fundamental forces of nature and their relative strengths. (1) The nuclear force, which is the strongest but only relevant on subatomic scales. (2) The electromagnetic force, which occurs between charged particles on microscopic scales. It is times as strong as the nuclear force.

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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. Hence, its phase angle is

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Chapter 3: Vector Analysis

Solution: $\mathbf{F}_3 = F_{e3} \hat{x} + F_{e3} \hat{y}$
 $\mathbf{F}_{e3} = F_{e31} \hat{x} + F_{e32} \hat{y}$
Forces F_{e31} and F_{e32} are equal in magnitude, with F_{e31} pointing along 45° above the x axis and F_{e32} pointing along 45° below the x axis. The \hat{y} components cancel. Hence, F_{e3} is along $+\hat{x}$.
Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

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Solution: $A C x^2 y^3 \hat{z} x^4 \hat{y}^2 \hat{z}^2 8 6 2 0 B C x^2 y^3$
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z³ x⁴ y² z² 8 2 6 0 Problem 3.3 In Cartesian coordinates, the three corners of a triangle are P₁ (0, 4, 4), P₂ (4, 4, 4), and P₃ (2, 2, 4). Find the area of the triangle. Solution: Let $\mathbf{B} = \mathbf{P}_1\mathbf{P}_2 = x^4 y^8$ and $\mathbf{C} = \mathbf{P}_1\mathbf{P}_3 = x^2 y^2 z^8$ represent two sides of the triangle.

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(i) Easy Solution: The physics of the problem suggests that a possible solution for (1.2) is $\mathbf{B} = \mathbf{A}$ and $f(0) = 0$, in which case we have $y^2(x;t) = A \cos(\omega t + bx)$: (1.3) (ii) Rigorous Solution: By expanding the second term in (1.2), we have $A \cos \omega t + B(\cos \omega t \cos \theta + \sin \omega t \sin \theta) = 0$;

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Solution: (a) From Example 1-4, $\tilde{I} = \mathbf{V} e^{-sR + j\omega L} = 150 \angle 400^\circ + j105 \angle 310^\circ = 150 \angle 400^\circ + j300 = 0.3 \angle 36.9^\circ$ (A): (b) $i(t) = \text{Re}[e^{j\omega t}] = \text{Re}[0.3e^{j36.9^\circ} e^{j105t}] = 0.3 \cos(105t - 36.9^\circ)$ (A): Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall

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Ulaby & Ravaioli, Fundamentals of Applied Electromagnetics ...

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