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*Solution:  $x_3 = F_{e31} = F_{e32}$  Forces  $F_{e31}$  and  $F_{e32}$  are equal in magnitude, with  $F_{e31}$  pointing along 45*

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above the x axis and  $F_e$  pointing along  $45^\circ$  below the x axis. The  $\hat{y}$  components cancel. Hence,  $F_e$  is along  $+\hat{x}$ . Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

## Fundamentals of Applied Electromagnetics

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)  $100e^{az} = 10$   $100e^{0.5z} = 10$   $e^{0.5z} = 0.1$   $0.5z = \ln 0.1 = -2.3$   $z = -4.6$  m: (b)  $100e^{0.5z} = 1$   $z = \ln 0.01$   $0.5z = -9.2$  m: (c)  $100e^{0.5z} = 106$ .  $z = \ln 106$ .  $0.5z = 37$  m: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form: z.

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Solution: (a) We start by converting the given expression into a cosine function of the form given by (1.17):  $y(x;t)=2\cos 4\pi t+10\pi x$  p 2 (cm): Since the coefficients of  $t$  and  $x$  both have the same sign, the wave is traveling in the negative  $x$ -direction. (b) From the cosine expression,  $f=0= p=2$ .

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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  $2\pi$  in phase. The green wave crosses the time axis 1 s sooner than the red wave.

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