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Solution:  $x$   $q_3$  Fe

$31$  Fe  $32$   $q_1$   $q_2$   $y$  F

$e_{31} = F_{e_{31}} + F_{e_{32}}$

$32$  Forces  $F_{e_{31}}$

and  $F_{e_{32}}$  are

equal in

magnitude, with  $F_{e_{31}}$

$31$  pointing along

$45^\circ$  above the  $x$  axis



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and  $F_e$  is pointing  
along  $+x$  axis. The  $y$   
components  
cancel. Hence,  $F_e$   
is along  $+x$ .  
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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

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force, which occurs between charged particles on microscopic scales. It is times as strong as the nuclear force.

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Solution: (a)  
 $100eaz=10$

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100e0:5z=10 Elect

e0:5z=0:1

0:5z=ln0:1 = 2:3

z=4:6 m: (b)

100e0:5z=1 z=

ln0:01 0:5 =9:2 m:

(c) 100e0:5z=106.

z= ln108. 0:5 =37

m: Fawwaz T.

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Exercise 1.7

Express the

following complex

functions in polar

form:  $z$ .

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Solution: (a) We

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Start by converting the given

expression into a cosine function of

the form given by

$$(1.17): y(x;t) = 2 \cos$$

$$4\pi t + 10\pi x \quad p^2 \text{ (cm):}$$

Since the

coefficients of  $t$

and  $x$  both have

the same sign, the

wave is traveling in

the negative  $x$ -

direction. (b) From

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the cosine  
expression,  $f. 0 =$   
 $\rho = 2.$

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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



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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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