

- c) CCW
e) CCW
g) CCW
- d) none
f) CCW
h) CW
17. a) $0.01 \text{ T}\cdot\text{m}^2$
c) 33 A
- b) 1 V
18. a) $4.2 \times 10^6 \text{ N/C}$, 11° to the right of up
c) 12540 N opposite direction of \vec{E}
- b) $5.0 \times 10^6 \text{ V}$
d) 15,000 J
19. a) 3
b) 0.26 mm
20. a) Consider Huygen wavelets. All wavelets from the bottom half of the slit are $\frac{1}{2}$ a wavelength out of phase with the corresponding wavelets from the top half of the slit.
b) 2 times the wavelength.