

21 Alternating current – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

21.1 Reversing direction.

21.2 A sine wave (sinusoidal).

21.3 The largest value in a cycle.

21.4 The time for one full cycle.

21.5 $f = 1/T = 1/0.020 = 50$ Hz.

21.6 $T = 1/f = 1/50 = 0.020$ s.

21.7 The battery gives a steady direct current that always flows the same way. The mains gives an alternating current that reverses direction 50 times each second, following a sine wave.