PROBLEM:

 $x[n] = A\cos(\omega_0 n + \phi)$

at a rate f_s ; and the resultant x[n] can be written:

So for each part below, determine the values of
$$A$$
, ϕ and ω_0 . In addition, state whether or not the signal has

- been oversampled or undersampled.
- (a) Let the sampling frequency be $f_s = 10$ samples/sec.
 - (b) Let the sampling frequency be $f_s = 5$ samples/sec.

Let $x(t) = 7\sin(11\pi t)$. In each of the following the discrete-time signal x[n] is obtained by sampling x(t)