



FIGURE 1.36 Signal for EOCE 1.10.

3. Using MATLAB, we can find  $x(n) + x(-n)$  by writing the MATLAB script

```
n = [-2 : 2]
x1 = stepsignal(1, -2, 2)
x2=impulsesignal(-1, -2, 2)
x = x1 + x2;
[xref, nref] = xreflected(x, n);
[xfinal nfinal] = x1plusx2 (x, xref, n, nref);
stem(nfinal,xfinal); title('Original and the reflected
added')
xlabel('n');
```

and the plot is in Figure 1.37.

## 1.23 End of Chapter Problems

### EOCP 1.1

Analytically find the following signals if  $x(n) = nu(n - 1) \quad -\infty < n < \infty$

1.  $x(-n)$
2.  $x(-n + 1)$