

```
b) x p(x /z)
                                                                          Q6. 0
           0.80 -> (0.6+0.2)
       3 (3-92 -) (0.8+0.12)
           0.98 -> (0.92+0.06)
                                                                            6)
                      → (0.98 + 002)
J) E(x) = \sum_{x} p(x=x)
= (1 \times 0.6) + (2 \times 0.2) + (3 \times 0.12) +
(4 \times 0.06) + (5 \times 0.2)
              = 1.7.
  E(x^{2}) = \sum_{x^{2}p} (x = x)
= (1^{2} \times 0.6) + (2^{2} \times 0.2) \rightarrow (3^{2} \times 0.12) + (4^{2} \times 0.06) + (5^{2} \times 0.02)
            = 3.94;
     \Rightarrow V(x) = E(x^2) - (E(x))
                   = 3.94 - (1.72)
      5.0(x) = \sqrt{1.05} = 1.247
```

