

In-class
11/23

$$\{(12, -1) (8, -1) (9, -1) (8, -1) (4, -1) (6, 0)\}$$

| K | S | δ | Y | q(s) |
|---|----|----------|-----|---------|
| 1 | 12 | -1 | 0.9 | -4.0951 |
| 2 | 8 | -1 | 0.9 | -3.439 |
| 3 | 9 | -1 | 0.9 | -2.71 |
| 4 | 8 | -1 | 0.9 | -1.9 |
| 5 | 4 | -1 | 0.9 | -1 |
| 6 | 6 | 0 | 0.9 | 0 |

$$q(12) = -1 + (0.9)(-1) + (0.9)^2(-1) + (0.9)^3(-1) + (0.9)^4(-1) + (0.9)^5(0)$$

$$q(8) = -1 + (0.9)(-1) + (0.9)^2(-1) + (0.9)^3(-1) + (0.9)^4(0)$$

$$q(9) = -1 + (0.9)(-1) + (0.9)^2(-1) + (0.9)^3(0)$$

$$q(8) = -1 + (0.9)(-1) + (0.9)^2(0)$$

$$q(4) = -1 + (0.9)(0)$$

| | | | | | | | | |
|--------|---|---|----|----|------|------|--|--|
| ① | 0 | 1 | 2 | 3 | 0 | | | |
| N(s) = | 1 | 5 | 6 | 7 | -1 | | | |
| | 1 | 1 | 10 | 11 | -3.4 | -2.7 | | |
| | 1 | | 14 | 0 | -4.1 | | | |

| | | | | |
|----------------------------|------|------|--|--|
| $V(s) = \frac{S(s)}{N(s)}$ | 0 | | | |
| | -1 | | | |
| | -3.4 | -2.7 | | |
| | -4.1 | | | |

②

$N(s) =$

| | | | |
|---|---|--|---|
| 0 | | | |
| 1 | | | |
| 2 | 1 | | |
| 1 | | | 0 |

$S(s) =$

| | | | |
|------|------|--|---|
| 0 | | | |
| -1 | | | |
| -5.4 | -2.7 | | |
| -4.1 | | | 0 |

$V(s) = \frac{S(s)}{N(s)} =$

| | | | |
|------|------|--|--|
| 0 | | | |
| -1 | | | |
| -2.7 | -2.7 | | |
| -4.1 | | | |