

**Problem 17**  
**Changing Unit Hydrograph Durations**

[a] 2 pts

A =  mi<sup>2</sup>

| Time<br>(hours) | [b] 3 pts<br>6-hr UH<br>(cfs) | [c] 3 pts<br>S-Hyd<br>(cfs) | [d] 3 pts<br>9-hr UH<br>(cfs) |
|-----------------|-------------------------------|-----------------------------|-------------------------------|
| 0               | 0.0                           | 0                           | 0.0                           |
| 1               | 16.7                          | 100                         | 20.0                          |
| 2               | 66.7                          | 400                         | 80.0                          |
| 3               | 133.3                         | 800                         | 160.0                         |
| 4               | 166.7                         | 1000                        | 200.0                         |
| 5               | 183.3                         | 1100                        | 220.0                         |
| 6               | 200.0                         | 1200                        | 220.0                         |
| 7               | 183.3                         | 1200                        | 160.0                         |
| 8               | 133.3                         | 1200                        | 80.0                          |
| 9               | 66.7                          | 1200                        | 40.0                          |
| 10              | 33.3                          | 1200                        | 20.0                          |
| 11              | 16.7                          | 1200                        | 0.0                           |
| 12              | 0.0                           | 1200                        | 0.0                           |