**Multiple-Choice Test**

**Chapter 4.04**

**Unary Matrix Operations**

1. If the determinant of a  matrix is given as 20, then the determinant of 5 is
2. 100
3. 12500
4. 25
5. 62500
6. If the matrix product  is defined, then ()*T* is
7. 
8. 
9. 
10. 
11. The trace of a matrix



is

1. 17
2. 39
3. 40
4. 110
5. A square  matrixis symmetric if
6. for all 
7. for all 
8. for all 
9. for all 
10. The determinant of the matrix



is 50. The value of *a* is then

1. 0.6667
2. 24.67
3. -23.33
4. 5.556
5.  is a  matrix and a matrix  is obtained by the row operations of replacing  with , and then  is replaced by a linear combination of . If , then  is equal to
6. 12
7. 
8. 
9. 112