

## Answers to Test 1, 1994

1. 5
2.  $(3, 4, 1)$
3.  $-9$
4.  $\pi/4$
5.  $\langle 3/2, 0, 3/2 \rangle$
6. circles
7.  $-y \sin(xy)$
8.  $\langle 4/\sqrt{17}, 0, 1/\sqrt{17} \rangle$
9.  $\sqrt{51}$
10.  $x + y + 4z = 6$
11. (i) (b), lines
  - (ii) (a),  $(0, 0, 1/3)$
  - (iii) (e),  $(0, \pm 1, 0)$