

Quiz 2 — Solutions

Correct answers:

1. Statement 1 is (f)
Statement 2 is (d)
Statement 3 is (a)
Statement 4 is (g)
Statement 5 is (e)
Statement 6 is (b)
Statement 7 is (c)
2. The correct answer is (3).

Here is a complete copy of `bfield`:

```
program bfield
  implicit none
  double precision:: bx, current, pi, radius, x
  integer:: ix
  pi = 4.d0*atan(1.d0)
  radius = 1.4d-2
  current = 0.1d0
  do ix = 0,50
    x = dble(ix)/1.d3
    bx = 1.d-7 * 2.d0*pi * radius**2 * current / &
      sqrt(x**2 + radius**2)**3
    write(*,1000)x/1.d-2, bx    ! x is printed out in cm.
  enddo
1000 format(1x,f4.1,2x,e14.3)
end program bfield
```