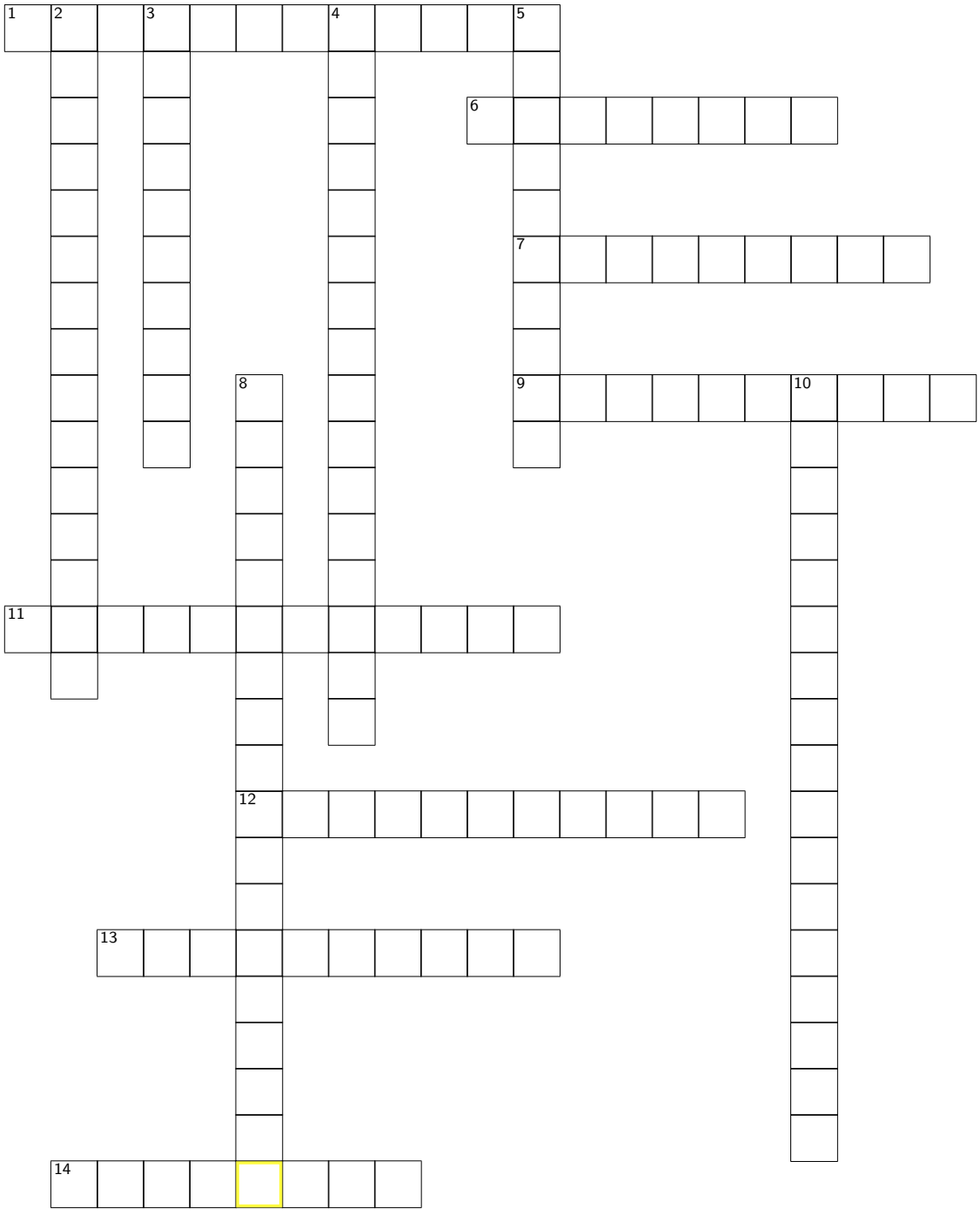
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Across

1 $\Psi(x, y, z)$, for example

6 $\nabla g(x, y, z) \equiv \frac{\partial g}{\partial x}\mathbf{i} + \frac{\partial g}{\partial y}\mathbf{j} + \frac{\partial g}{\partial z}\mathbf{k}$

7 $\nabla^2 \equiv \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}$

9 this quantity is equal to n^2 for hydrogenlike wavefunctions

11 the process of constraining input from a continuous set of values to a discrete set

12 $-\frac{\hbar^2}{2m}\nabla^2 + V(x, y, z)$

13 $[\hat{A}, \hat{B}]$

14 the definite integral of this function has the factor $\sqrt{\frac{\pi}{a}}$

Down

2 $-i\hbar\left(y\frac{\partial}{\partial z} - z\frac{\partial}{\partial y}\right), -i\hbar\left(z\frac{\partial}{\partial x} - x\frac{\partial}{\partial z}\right), -i\hbar\left(x\frac{\partial}{\partial y} - y\frac{\partial}{\partial x}\right)$

3 k in $\hat{A}f(x) = kf(x)$

4 if $z = x + iy$, what is $x - iy$?

5 symmetric stretch is an example

8 $Y_l^m(\theta, \phi)$

10 $a_{n+2} = -\frac{c^2}{(n+1)(n+2)}a_n$

1