Problem Normalization"

We seek a normalized NIB> such that $|N|^2 (\beta |\beta) = 1$

1= N/2 [b12 (FIF) + 0 +6 (F/g) +6 * a (g) +5 + 1612 (919) [(1)

MI= Any complex number that sotisfies this will work

b) Now equation (1) becomes

$$\Rightarrow$$
 $|N| = \frac{1}{\sqrt{101^2 + 161^2 + 2Re(0^*65)}}$

Any complex number that satisfies this will work.