2. Given that the expression $\frac{z}{1 - |z|}$ is in the form of a fraction, find the values of $p$ and $q$.

$$\frac{z}{1 - |z|} = \frac{a + bi}{c + di}$$

Where $a, b, c, d$ are the coefficients of the expression.

4. Two roots $\alpha$ and $\beta$ satisfy the equation $\alpha^2 + \beta^2 = 2\alpha\beta$. Find the value of $\alpha + \beta$.

Answer: $\alpha + \beta = 0$
(5) 

(4) 

(3) 

j

(2) 

(1) 

(6)
Write the expression in standard form. Then find the zeroes of the function.

\[ f(x) = 2x^2 + 4x + 2 \]

(a) Write down the vertex of the parabola in standard form.

(x, y) = (-1, 0)

(b) Find the zeroes of the function.

x₁ = -1 and x₂ = -1

(c) Write the standard form with the zeroes in standard form.

\[ f(x) = 2(x + 1)^2 \]
The table below shows the results of the calculations:

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>45%</td>
</tr>
<tr>
<td>B</td>
<td>30%</td>
</tr>
<tr>
<td>C</td>
<td>25%</td>
</tr>
</tbody>
</table>

The conclusion is that Country A has the highest percentage of the given data.