Soluție

1. $z_1 = \dfrac{-3-7i}{2}, z_2 = \dfrac{-3+7i}{2}$.

2. $f(0) = -2m + 2 \geq 0 \Rightarrow m \in (-\infty; 1]$.

3. $2 - x \geq 0$, $\sqrt{2-x} = \sqrt[3]{x-2} \Rightarrow x - 2 \geq 0 \Rightarrow x = 2$.

4. Ambii membri sunt egali cu $\dfrac{(a+b)!}{a!b!}$ . .

5. $\dfrac{2m-2}{3-2} = \dfrac{1-m-4}{3-4} \Rightarrow m = -5$.

6. $\cos 2\alpha = 1 - 2\sin^2 \alpha \Rightarrow \sin \alpha = \dfrac{\sqrt{3}}{2}$.