

$$(9) \quad -\frac{\sqrt{2}}{2} < -m < \frac{\sqrt{2}}{2} \quad 0 < \underbrace{\frac{\sqrt{2}}{2} - m}_{z} < \frac{\sqrt{2}}{2} \Rightarrow$$

$$z(t) > 0 \quad \frac{1-m}{1+m} > 0 \Rightarrow m \in (-1, 1) \checkmark$$

$$(10) \quad (-\sqrt{2} \times 0) \times (-\sqrt{2} \times 0) \neq (-\sqrt{2} \times 0) \times (\sqrt{2} \times 0)$$

$$-\sqrt{2} \times \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} - \sqrt{2} \times \frac{\sqrt{2}}{2} = 0 \checkmark$$

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