Quiz\_Lecture25

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 is not a convex cone. It just comprises the cone interior.

Show:

.

But for a convex cone , we can let . Then  and . So,  is not a convex cone.

For example:

Let , . This zone  doesn’t include the point .

Assume that it’s a convex cone, , so any point  should also  (). However, when , . It’s a contradiction. So,  is not a convex cone.