```
\(\left\{\begin{array}{l}x=y=z-1 \\ x^{\wedge} 2+y^{\wedge} 2+z^{\wedge} 2+2(x y+y z+z x)=0\end{array}\right.\)
\(\left\{\begin{array}{l}x=y=z-1 \\ x^{\wedge} 2+x^{\wedge} 2+(x+1)^{\wedge} 2+2\left(x^{*} x+x^{*}(x+1)+x^{*}(x+1)\right)=0\end{array}\right.\)
\(\left\{\begin{array}{l}x=y=z-1 \\ 9 * x^{\wedge} 2+6 * x+1=0\end{array}\right.\)
\((3 x+1)^{\wedge} 2=0\).
```

The system has one solution $A(-1 / 3 ;-1 / 3 ;-4 / 3)$.
Thus, Q intersects the cone.
Answer: the statement is false.

