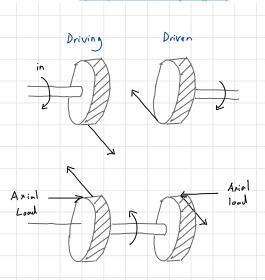
Ex 6) Helical Gears in Counter Shaft

• The following figures show examples of helical gearbox. Explain why all the directions of the helix angle in a counter shaft is the same.



Manual transmission of 92' Toyota Tacoma Source: Youtube channel, Weber State University, Dept. of Automotive Engineerin https://www.youtube.com/watch?v=v0o3TLgL0kM&app=desktop



Driving Driven

In the counter shaft, one works as a driven year (which experiences the year contact force in the same direction as Hs rotation) and the other as a driving year (contact force applied opposite to rotation). In order for axial loads from both of them to be canceled, they need to have the same helix angle directions.