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| 13-6)A parallel helical gearset uses a **20-tooth pinion** driving a **36-tooth gea**r. The pinion has a right-hand **helix angle of 30°,** a normal **pressure angle of 25°,** and a normal **diametral pitch of 4 teeth/in**. Find:  (*a*) The normal, transverse, and axial circular pitches | (*b*) The normal base circular pitch    (*c*) The transverse diametral pitch and the transverse pressure angle    (*d*) The addendum, dedendum, and pitch diameter of each gear |

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| 13-12 The decision has been made to use f*n* 5 20°, *Pt* 5 6 teeth/in, and c 5 30° for a 2:1 reduction.  Choose the smallest acceptable full-depth pinion and gear tooth count to avoid interference. |  |