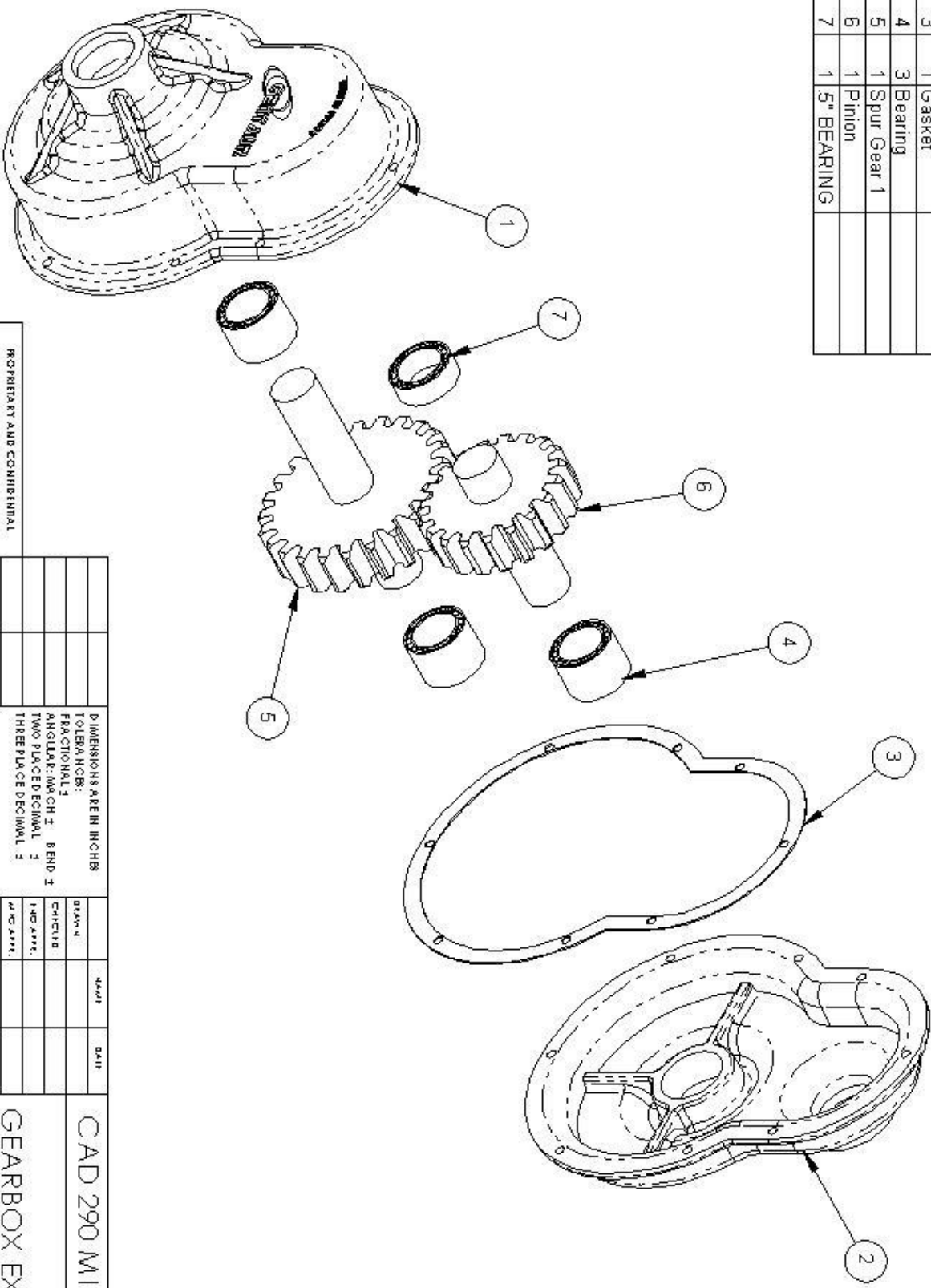


Solid Modeling 121 Mid-Term Exam

1. Create an assembly and begin to mate the components as shown in the Gearbox Assembly Drawing.
2. Model the gasket as shown on page 4.
3. Model the Rear Casting part.
You may want to model it using the top-down assembly method. It's much faster.
4. Re-Create Gearbox Exploded Assembly Drawing on page 2.
The drawing view and appearance must be as close as possible.

| ITEM NO. | QTY. | PART NO. | DESCRIPTION |
|----------|------|--------------|-------------|
| 1 | 1 | Casting | |
| 2 | 1 | Rear Casting | |
| 3 | 1 | Gasket | |
| 4 | 3 | Bearing | |
| 5 | 1 | Spur Gear 1 | |
| 6 | 1 | Pinion | |
| 7 | 1 | 5" BEARING | |



| | | | | | |
|----------|------|----|------|------|----|
| REVISED | DATE | BY | CHKD | DATE | BY |
| 00000000 | | | | | |

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| | | | |
|----------------------------|--|------|------|
| DIMENSIONS ARE IN INCHES | | DATE | DATE |
| TOLERANCES: | | DATE | DATE |
| FRACTIONAL: 1/16 | | DATE | DATE |
| ANGULAR: MAX ± 1/2 | | DATE | DATE |
| TWO PLACE DECIMAL: 1/10 | | DATE | DATE |
| THREE PLACE DECIMAL: 1/100 | | DATE | DATE |
| D.A. | | DATE | DATE |
| COMMENTS: | | DATE | DATE |
| NEXT ASSY | | DATE | DATE |
| USED ON | | DATE | DATE |
| APPLICATION | | DATE | DATE |
| DO NOT SCALE DRAWING | | DATE | DATE |
| CAD 290 MID-TERM | | DATE | DATE |
| GEARBOX EXPLODED | | DATE | DATE |
| REV. NO. | | DATE | DATE |
| A | | DATE | DATE |
| SCALE | | DATE | DATE |
| 1:1 | | DATE | DATE |



NOTE: TYP. RIB RADII
SHOULD BE .125" —

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REAR CASTING

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