1. **Find the total length of the shoulder pin.**
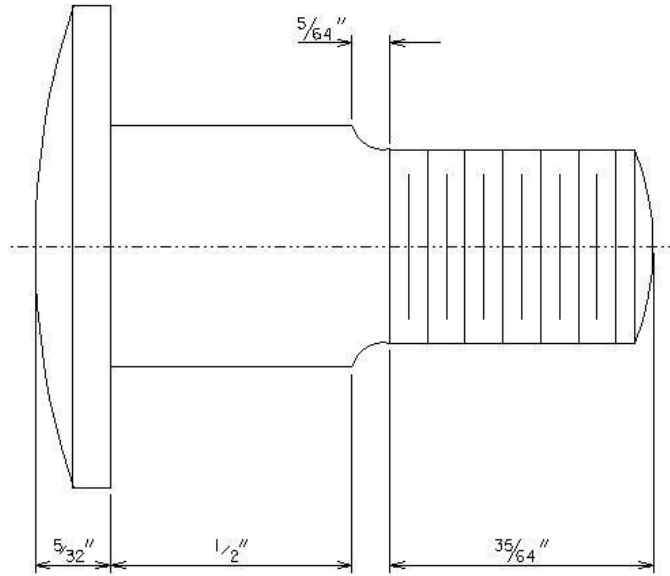
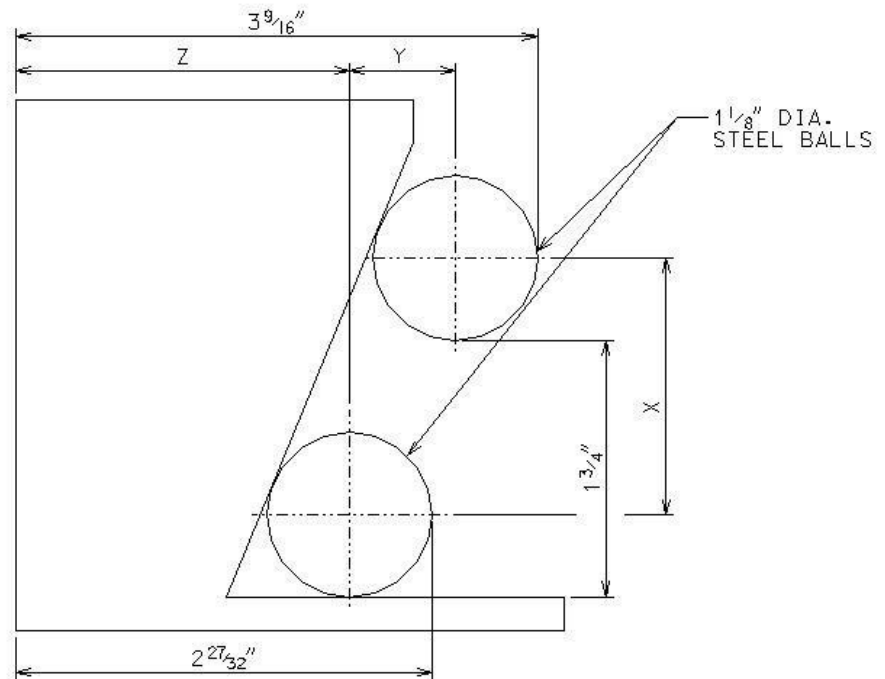## Practical Problems

2. Calculate the radius X .

$1\frac{9}{32}''$ $\frac{7}{8}''$ $1\frac{1}{64}''$

$\frac{3}{8}''$

$5\frac{19}{64}''$
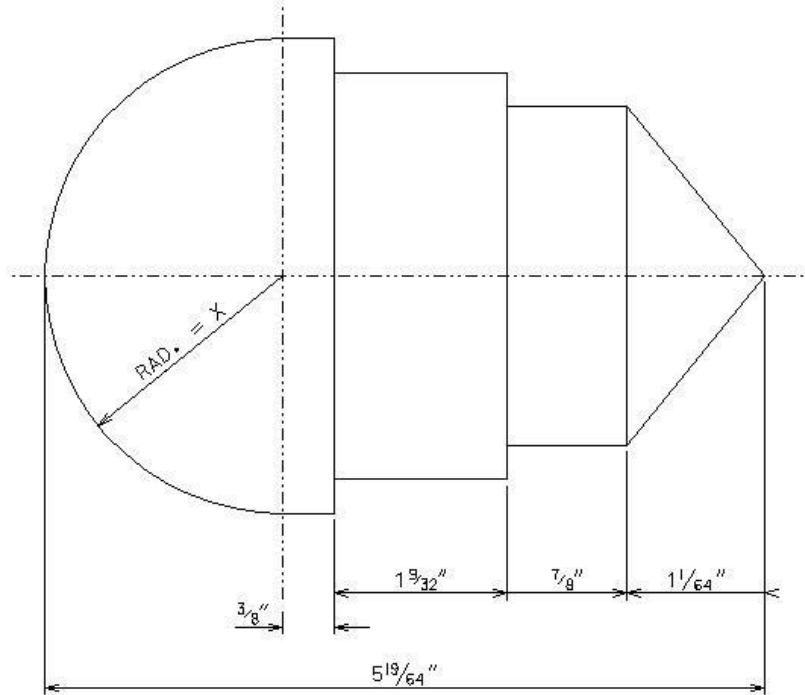
4. Calculate dimensions X, Y, and Z

$3\frac{9}{16}''$

Z   Y

$1\frac{1}{8}''$ DIA.
STEEL BALLS

$1\frac{3}{4}''$

X

$2\frac{27}{32}''$