

# TURNING A BALL THE EASY WAY

SWAT 2014

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[swat.hockenbery.net](http://swat.hockenbery.net)

# Sphere – a perfect shape

## No spheres in nature

Earth

Peas

Pearls

Rain drops

Volcanic Bombs



# Turning a sphere

## WITH A BOWL GOUGE

- ▣ Fun
- ▣ Quick, Easy
- ▣ Fairly accurate  $\pm 1/8$
- ▣ improves curves in other work
- ▣ Improves bowl gouge skill
- ▣ Increases confidence

## WITH A JIG

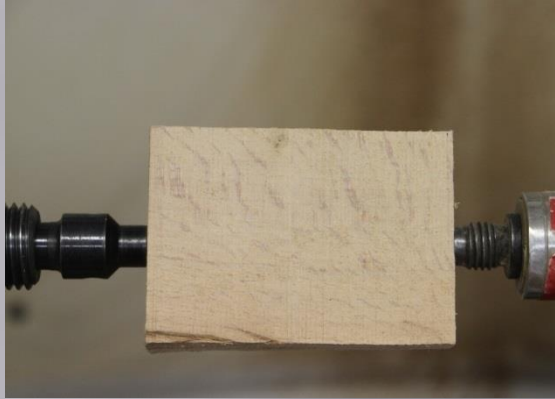
- ▣ Accurate  $\pm 1/64$
- ▣ Balls smaller than 2" easier for me with a jig
- ▣ Great for architectural elements

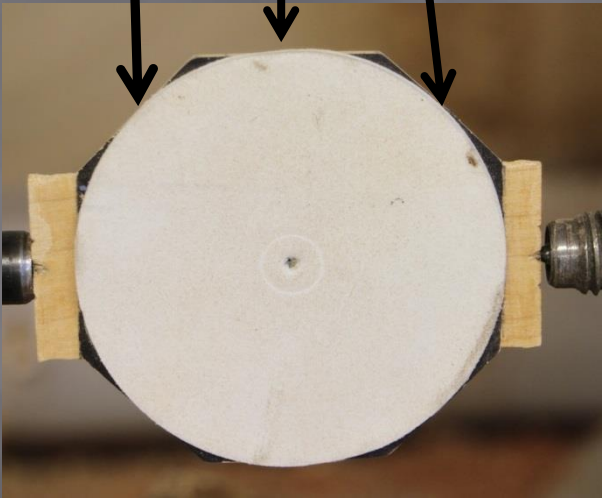
# Turned Spheres

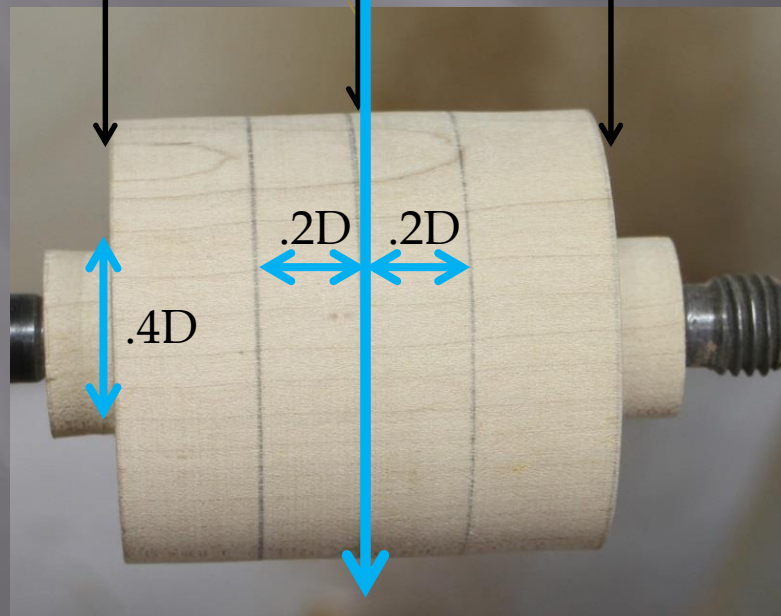
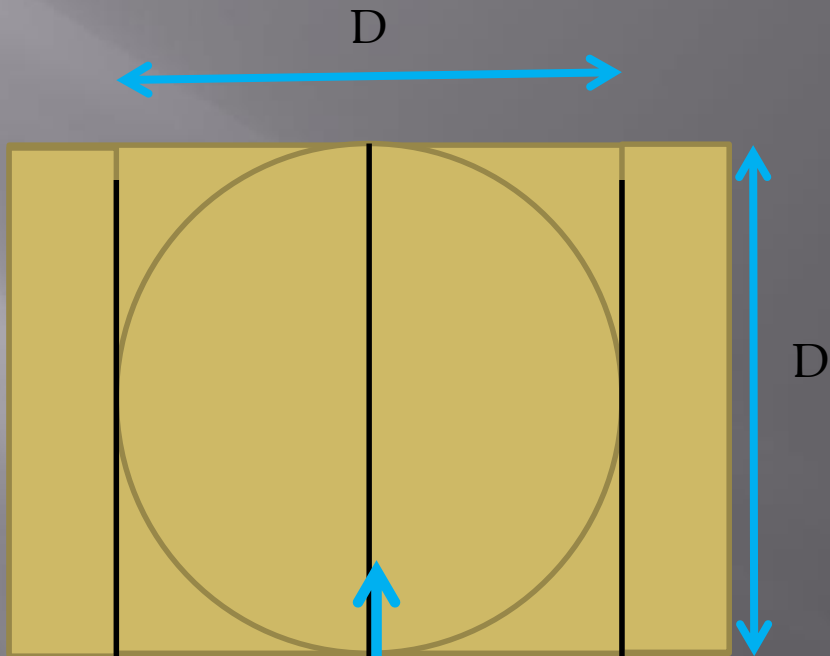
- ▣ Bowls
- ▣ Hollow Forms
- ▣ Boxes
- ▣ Ornaments
- ▣ Jewelry
- ▣ Desk ornaments
- ▣ Salt & Pepper
- ▣ Elements of turnings
- ▣ Furniture Elements
- ▣ Architectural Elements
- ▣ Molds for concrete
- ▣ Globes



# Sneaking up on the Curve





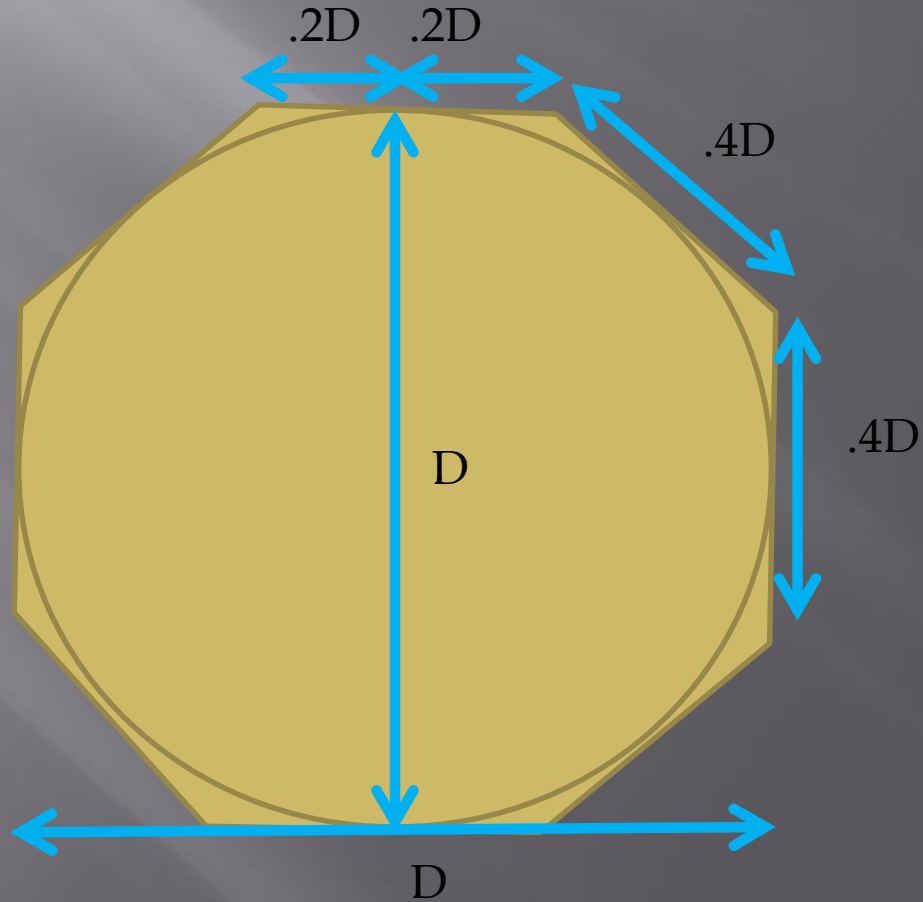




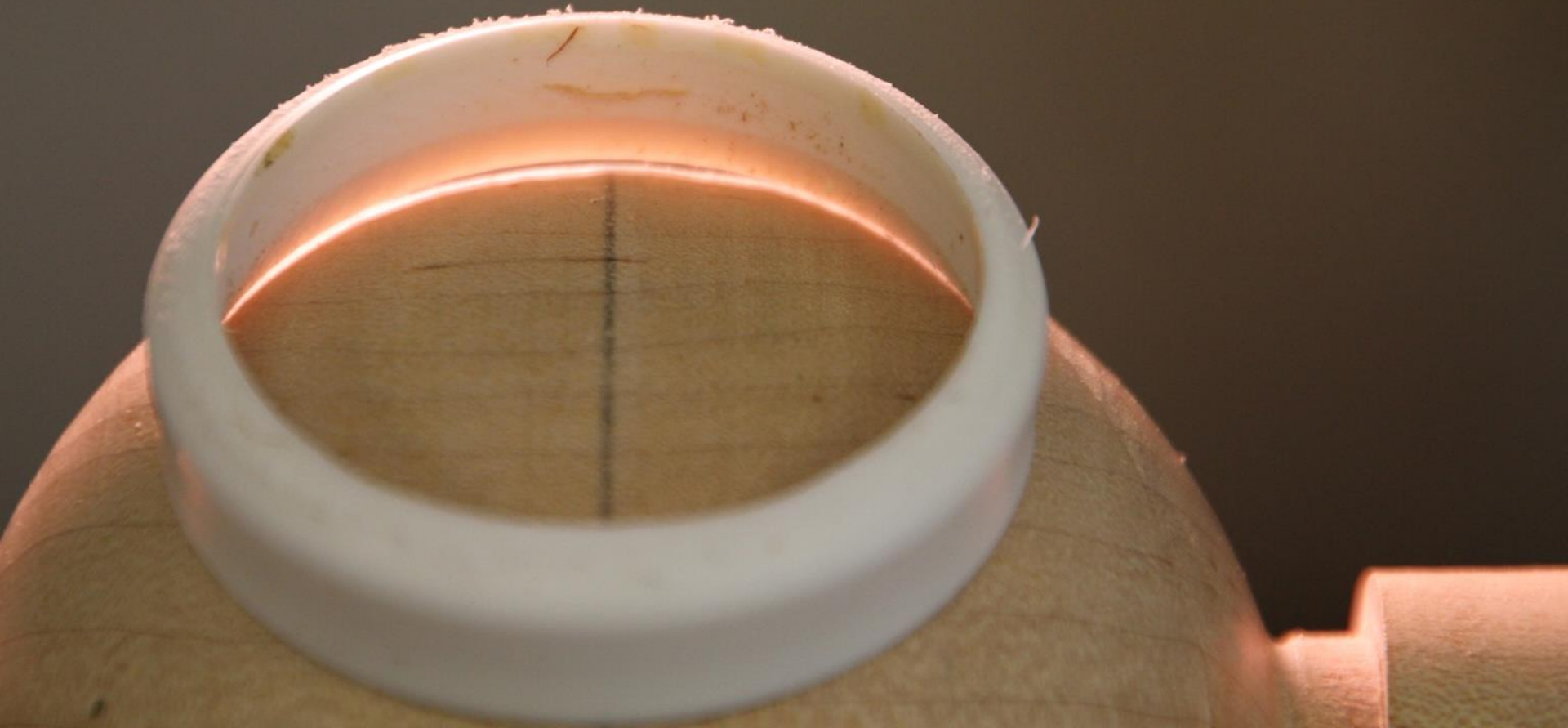
Layout Approximation  
.4 is used instead of  
0.414213562373095

Easy to calculate at  
the lathe

Error of each line is  
about 1/64 of an inch  
A fat pencil line



Too much light  
side(s) high



Too much light. The top center  
of the ball is round - remove  
wood on the right side



Just about right

