

## SHOP MATH REFERENCE

### POCKET CALCULATOR

I keep a pocket calculator within easy reach in the shop, on my desk, and in my truck at all times. They are cheap and a few simple formulas can help out. The formula that helps me the most is the old favorite  $a^2 + b^2 = c^2$ . This is a real work horse. With a \$5 calculator (it must have square root) you can find out how long to cut that piece, or how long the piece should have been cut, and make sure your work is perfectly square. When you can't fit your framing square in there, this is your ticket. This is the same as the old 3-4-5 trick, except you can use real numbers easily with the formula.

#### Key Strokes for Triangulation

a press  $\boxed{\times}$  press  $\boxed{=}$  press  $\boxed{M+}$   
 b press  $\boxed{\times}$  press  $\boxed{=}$  press  $\boxed{M+}$   
 Press  $\boxed{\text{Recall M}}$  press  $\boxed{\sqrt{\quad}}$   
 c = answer on screen

#### EXAMPLE



18.375  $\boxed{\times}$   $\boxed{=}$  = 337.64062  $\boxed{M+}$   
 24.5  $\boxed{\times}$   $\boxed{=}$  = 600.25  $\boxed{M+}$   
 $\boxed{\text{MRC}}$  = 937.89062  $\boxed{\sqrt{\quad}}$  = 30.6249 = 30 5/8  
 Answer: c = 30 5/8

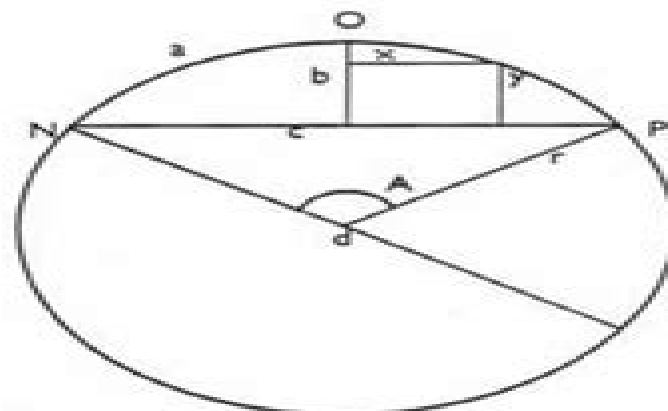


Diameter of circle outside square  
 = 1.414 x side of square  
 Side of square inside circle = 0.70711 x diameter  
 Diameter of circle of equal periphery to a square  
 = 1.27324 x side of square  
 Side of square of equal periphery to circle  
 = 0.78540 x diameter

Copy this sheet and keep it right in the shop. This is not Rocket Science! This is high school geometry. It will save you lots of time and trial and error.

-Bill Wojcik

### PROPERTIES OF A CIRCLE



d = diameter  
 r = radius  
 c = length of chord NP  
 a = length of arc NOP  
 b = rise of arc NOP  
 A = inscribed angle NAP, in degrees

$a = \pi r A / 180 = 0.017453 r A$   
 $A = 180 a / \pi r = 57.29578 a / r$   
 $r = (4b^2 + c^2) / 8b$   
 $c = 2 \sqrt{2 b r - b^2} = 2 r \sin A/2$   
 $b = r - 1/2 \sqrt{4 r^2 - c^2} = 1/2 c \tan A/4$   
 $= 2 r \sin^2 A/4 = r + y - \sqrt{r^2 - x^2}$   
 $y = b - r + \sqrt{r^2 - x^2}$   
 $x = \sqrt{r^2 - (r + y - b)^2}$

Circumference = 6.28318 r = 3.14159 d =  $\pi d$   
 Diameter = 0.31831 circumference  
 Area = 3.14159  $r^2$  =  $\pi r^2$

1 inch = .08333 ft.

Above data from the American  
 Institute of Steel Construction

# Welding Math Practice Test

**Hongru Du**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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