



# January

Part of the Month

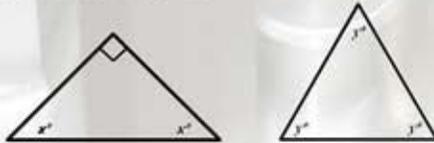
## Machining and Welding In Harmony (Part 3)

Even Peter Jackson would be proud of this trilogy. Back in January of 2012 and July of 2011 we featured the "granulator hopper" and the "granulator stand", respectively. (Visit our website to see past Part of the Months.) This month we introduce you to the granulator. That's right, this is the thing that actually does the granulating. Like its brethren, this part must move back and forth between the machining and welding departments several times to achieve the close tolerances required by our customer. A well designed fixture is also critical to aligning and holding the individual parts in place during the welding and machining processes.

### Problem:

In the triangles below,  $3(y-x)=$

- a. 15
- b. 30
- c. 45
- d. 60
- e. 105



### Quiz:

The month January was named after?

- a. Hindu Princess
- b. The Roman God Janus
- c. The Greek God Januarius
- d. A former Roman goddess

\*Please be sure to check our website for answers to all previous months Problems and Quizzes! Go to [www.metalwork.com](http://www.metalwork.com) and click on Problem of the Month link.

### Quote:

Be always at war with your vices, at peace with your neighbors, and let each new year find you a better man.

*~ Benjamin Franklin ~*

Complete Assembly, Sheet Metal, Machined and Welded Components.

- > ISO 9001 certified quality management system
- > Certified Welding to MIL-STD-1595a for process DTAW Group 1b, 1a
- > 100% in-process inspection
- > Certified inspection reports

### All CAD Formats:

Solidworks (sldprt, sldasm), AutoCAD (dwg, dxf), Inventor, Pro/E, CATIA 4/5, Unigraphics, Parasolid, ACIS SAT, iges, step, ckd, prt, stl

[www.metalwork.com](http://www.metalwork.com)  
Come Visit Us!

102D Park Drive Montgomerville, PA  
P: 215.654.7778 F: 215.654.7779  
E: [potm@metalwork.com](mailto:potm@metalwork.com)

Sheet Metal  
Polishing

Enclosures  
Welding & Brazing

Machining  
Laser Cutting

