

# Mathematics Problem of the Week (241)

This week's winner is:

**Andrew Linnitt**

Contact Lin Hammill (Surrey Fir 348) or Judy Bicep (Richmond,3335) for your prize or email [MathProblem@kpu.ca](mailto:MathProblem@kpu.ca).

Also submitting correct solutions to problem 241 were:

**Suzanne Pearce and David Luna**

---

## Problem 241 solution:

From the vertical centre line we see that the radius of the circle is  $4 + x$  units. So the hypotenuse of the triangle is  $4 + x$  units in length.

Thus we can apply Pythagoras's Theorem:

$$x^2 + 6^2 = (4 + x)^2.$$

Solve this equation to obtain  $x = 2.5$ . The width of the star is 5 cm.

