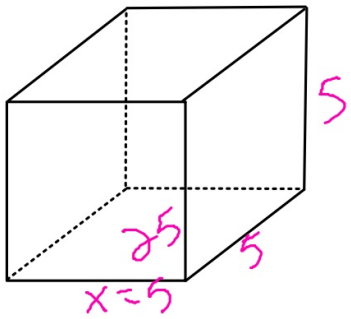
Algebra 2 Bellwork Friday, November 1, 2013

1. Find the volume of this cube. The area of one face is 25 cm^2.



$V = l \cdot w \cdot h = 5 \cdot 5 \cdot 5$

$V = x^3 = 5^3$

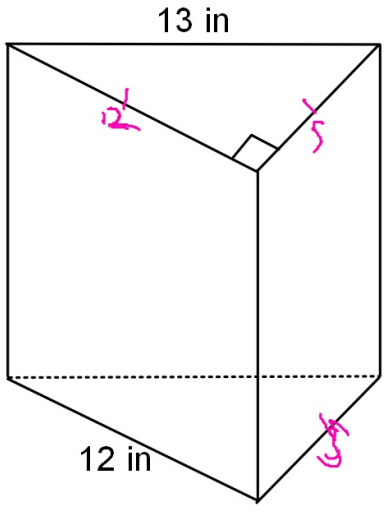
$V = B \cdot h = 25 \cdot 5$

$125\ cm^3$

2. The Volume of any Prism or Cylinder is: V = Bh where B=area of the base.

Find the Volume of this prism.

(b) $12 \cdot 5 = 30$



$a^2 + 12^2 = 13^2$

$a^2 + 144 = 169$

$-144 \quad -144$

$\sqrt{a^2} = \sqrt{25}$

$a = 5$

$30 \cdot 15 =$

$450\ in^3$