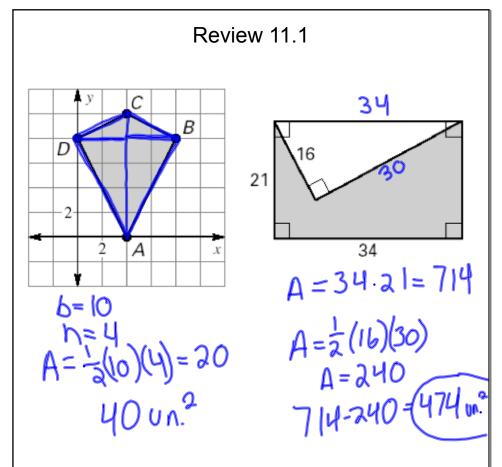
No Bellwork 04/11/12	



Heron's Formula Another way to find the area of a triangle is to use Heron's Formula. The formula is $A = \sqrt{s(s-a)(s-b)(s-c)}$ where A is the area of the triangle, a, b, and c are side lengths, and s is one half the perimeter of the triangle. Use the triangle below to justify Heron's Formula.

$$A = \frac{1}{a}bh$$

$$A = \frac{1}{a}(4\sqrt{a})(2\sqrt{a})$$

$$A = 8 \text{ un.}^{2}$$

$$P = 4 + 4 + 4\sqrt{a}$$

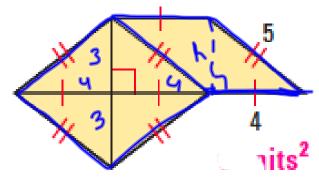
$$P = 8 + 4\sqrt{a}$$

$$S = 8 + 4\sqrt{a}$$

$$S = 4 + 2\sqrt{a}$$

$$S = 4 + 2\sqrt{a}$$

Review 11.2



1.
$$A=b.h$$

 $5=4+h^2$
 $h=3$
 $A=4.7=12$

a.
$$A = \frac{1}{2}d, d_{a}$$
 $A = \frac{1}{2}d, d_{a}$
 $A = \frac{1}{2}d, d_{a}$

Homework Assignment Worksheet 11.2B