No Bellwork 04/11/12

Review 11.1



$$
b=10
$$

$$
\begin{gathered}
n=4 \\
A=\frac{1}{2}(10)(4)=20 \\
40 \text { n. }^{2}
\end{gathered}
$$

$$
\begin{gathered}
A=240 \\
714-240=4740^{\circ}
\end{gathered}
$$

$$
A=34 \cdot 21=714
$$

$$
A=\frac{1}{2}(16)(30)
$$

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.

$$
\begin{aligned}
& A=\frac{1}{2} b h \\
& \begin{array}{l}
A=\frac{1}{2}(4 \sqrt{2})(2 \sqrt{2}) \\
A=8 \text { un. }^{2}
\end{array} \\
& \begin{array}{l}
P=4+4+4 \sqrt{2} \quad A=\frac{C=4 \sqrt{2}}{(4+\sqrt{2})(4+2 \sqrt{\sqrt{2}}-4)(4+2 \sqrt{2}-4)}(4+\sqrt{\sqrt{2}}-4 \sqrt{2}) \\
P=8+4 \sqrt{2}
\end{array} \\
& S=\frac{8+4 \sqrt{2}}{} \\
& S=4+2 \sqrt{2}
\end{aligned}
$$



## Homework Assignment

## Worksheet 11.2B

