

Name \_\_\_\_\_

Date \_\_\_\_\_

8A; Algebra 1

Period \_\_\_\_\_

## Homework

Simplify the following and leave your answer in simplest radical form.

1) $4\sqrt{21} \cdot 5\sqrt{3}$	2) $\sqrt{60x^9} \div \sqrt{5x^4}$	3) $\frac{21\sqrt{600}}{7\sqrt{2}}$
4) $(-2\sqrt{5})(3\sqrt{10})$	5) $(-4\sqrt{7})^2$	6) $\frac{\sqrt{120y^{10}}}{\sqrt{6y^2}}$
7) $\frac{\sqrt{16x^5}}{\sqrt{4x^3}}$	8) $3\sqrt{27x^3y} \cdot 4\sqrt{6x^2y^9}$	9) $\frac{2}{3}\sqrt{14} \cdot 12\sqrt{7}$
10) What is the area of a triangle with a base of $\sqrt{24}$ and a height of $5\sqrt{6}$	11) What is the area of a rectangle with a length of $3\sqrt{6}$ and a width of $\sqrt{24}$ ?	