**Extra Credit 21 – 24**

**Extra #21**

**Simplify**

**1.** $\sqrt[3]{-432}$ **2.** $\sqrt{540}$ **3.** (2$\sqrt[3]{24}$)(7$\sqrt[3]{18}$)

**4.** ($\sqrt{60}$)($\sqrt{105})$ **5.** $\sqrt{810}+ \sqrt{240}+ \sqrt{135}- \sqrt{250}$

**6.** $\sqrt[3]{216}- \sqrt[3]{48}+ \sqrt[3]{432}$

**Extra #22**

**Simplify**

**1.** $\sqrt[3]{6}(4\sqrt[3]{12}+ 5\sqrt[3]{9})$ **2.** $(\sqrt{18}+ 2\sqrt{3})^{2}$ **3.** ($\sqrt{5}- \sqrt{6})(\sqrt{5}+ \sqrt{2})$

**4.** $\frac{5+ \sqrt{3}}{4+ \sqrt{3}}$ **5.** $\frac{6}{2- \sqrt{7}}$ **6**. $\sqrt{\frac{ 3}{8}}+ \sqrt{54}- \sqrt{6}$

**Extra #23**

**Come in during seat time or before or after school before the next test and do the exponent monster in 15 minutes or less with 90% correct. This is worth 10 points instead of the usual 3 points**

**Extra #24**

**Simplify**

**1.** $(-3\sqrt{-5})^{2}$ **2.** $(\left(2i\right)\left(3i^{2}\right))^{2}$ **3.** $(\sqrt{-4}$)($\sqrt{-9}$)

**4.** (4 + 6*i*) – (2 – 7*i*) **5.** *i*(5*i*) + *i*(7 – *i*) **6.** 2(3 + 2*i*) + 3(1 – *i*)