

YOUR NAME: _____

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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Operate and simplify:

(a) $\sqrt[3]{54x^4y^3} - \sqrt[3]{16x^4y^3} =$

(b) $(2\sqrt{6} - 3)(2\sqrt{6} + 4) =$

2. Operate and simplify:

(a) $\sqrt{\frac{a^3}{b^7}} =$

(b) $\frac{5}{\sqrt{7} - 2} =$