Quiz 10

Solutions given without showing work may earn a zero. This quiz is closed-book, but you may use a calculator.

Problem 1. [3 points] Simplify completely:

$$10\sqrt{2x} - 5\sqrt{8x} + 8\sqrt{4}$$

Problem 2. [3 points] Simplify completely: $\frac{\sqrt[3]{40x^6y^4}}{\sqrt[3]{5y}}$

Problem 3. [4 points] Multiply and simplify: $(4 + 2\sqrt{5})^2$

$$\frac{2}{5} = \frac{3\sqrt{40 \times 6 \times 9}}{5} = \frac{3\sqrt{8 \times 6}}{5} = \frac{2 \times 2}{4}$$