

Math 06, Chapter 7 Test

10:00 - 10:45

These ten questions are worth 5 points each. To get all 5 points it is very important that you show clearly all your working out and reasoning. Put a box around the answer.

Q1. (a) Find: $\sqrt{900}$, **(b)** Find: $\sqrt[3]{-125}$

Q2. Find the distance between these points: $(4, 2)$ and $(3, -4)$

Q3. Assume x, y are positive and simplify: $\sqrt{45x^3y}$

Q4. Simplify: $\frac{5}{\sqrt{12}}$

Q5. Rationalize the denominator and simplify: $\frac{5}{5 - \sqrt{2}}$

Q6. Solve: $\sqrt{2x - 1} - 3 = 0$

Q7. Write this expression in radical form: $x^{7/9}$

Q8. (a) Find: $1000^{2/3}$, **(b)** Find: $8^{-5/3}$

Q9. Simplify: $\frac{(x^2y^{1/3})^6}{x^5}$

Q10. Multiply and write in standard form: $(3 - 2i)(1 + 4i)$