

Math 06, Chapter 9 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. Evaluate $\frac{x^2 - x + 6}{-3x - 4}$ for $x = -2$.

Q2. Simplify: $\frac{x^2 + x - 6}{x^2 - 5x + 6}$

Q3. Compute and simplify: $\frac{4y}{15x^2} \cdot \frac{5x}{8y^3}$

Q4. Compute and simplify: $\frac{x^2}{x+5} \div \frac{3x}{5x+25}$

Q5. Add and simplify: $\frac{7}{3m^3} + \frac{5}{3m^3}$

Q6. Add and simplify: $\frac{5}{w} + \frac{3}{w+2}$

Q7. Subtract and simplify: $\frac{3}{x^2+2x+1} - \frac{x^2}{6x+6}$

Q8. Simplify: $\frac{\frac{x}{3+6}}{\frac{x^2}{4+2}}$

Q9. Simplify: $\frac{1 + \frac{1}{x+1}}{1 - \frac{1}{x-1}}$

Q10. Solve: $\frac{3}{x-4} + \frac{1}{x^2-3x-4} = \frac{5}{x+1}$