MATH 022   FINAL EXAM SAMPLE E

1. Solve for y: $5(y - 12) - 15 = -3(y + 4)$

   a) $y = \frac{63}{8}$

   b) $y = -\frac{108}{7}$

   c) $y = \frac{31}{8}$

   d) $y = -\frac{16}{7}$

   e) $y = \frac{57}{8}$

2. What is the solution set of the equation $x^4 - 6x^2 + 8 = 0$?

   a) $\{\sqrt{2}, -\sqrt{2}, 2, -2\}$

   b) $\{\sqrt{2}, -\sqrt{2}, 2, -2\}$

   c) $\{0, 1, -1\}$

   d) $\{0\}$

   e) $\{1\}$

3. What is the solution set of the equation $\sqrt{3x + 18} - x = 0$?

   a) $\{-3, 6\}$

   b) $\{6\}$

   c) $\{-9\}$

   d) $\{-6, -3\}$

   e) There is no real solution

4. Solve for x: $|2x + 4| \geq 2$.

   a) $(-\infty, -1)$

   b) $(-\infty, -3] \cup [-1, \infty)$

   c) $(-\infty, 1] \cup [3, \infty)$

   d) $(-1, \infty)$

   e) $(-\infty, -3] \cup [3, \infty)$

5. Solve the polynomial inequality: $3x^3 + x^2 - 27x < 9$.

   a) $(-\infty, 3]$

   b) $(-\infty, -3) \cup \left(-\frac{1}{3}, 3\right)$

   c) $(-\infty, -3) \cup (-1, \infty)$

   d) $\left(-3, -\frac{1}{3}\right) \cup (3, \infty)$

   e) $(-3, -1) \cup (3, \infty)$

6. If
$$f(x) = \begin{cases} x^3 & \text{if } x \leq 0, \\ -x & \text{if } 0 < x \leq 2, \\ 1 & \text{if } x > 2, \end{cases}$$

   find $(f \circ f)(3)$.

   a) -1

   b) 0

   c) 9

   d) 3

   e) 1

7. Suppose you start with the graph of $f(x) = |x|$ and apply the following transformations in order:

   (1) Shift 3 units right,
   (2) Reflect across the x-axis,
   (3) Shift 2 units up.

   You will obtain the graph of which function?

   a) $g(x) = -|x + 3| + 2$

   b) $g(x) = -|x + 3| - 2$

   c) $g(x) = -|x - 3| + 2$

   d) $g(x) = |-x - 3| + 2$

   e) $g(x) = |-x + 3| - 2$

8. Find the inverse function of $f(x) = (x + 2)^3 - 8$.

   a) $f^{-1}(x) = \sqrt[3]{x + 10}$

   b) $f^{-1}(x) = \sqrt[3]{x + 6}$

   c) $f^{-1}(x) = \sqrt[3]{x - 2} + 8$

   d) $f^{-1}(x) = \sqrt[3]{x + 8} - 2$

   e) $f^{-1}(x) = \sqrt[3]{x + 2} - 8$

Math 22 Final Exam Psu

Katrin Zwirglmaier

Math 22 Final Exam Psu:

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