

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)  $y = -\frac{52}{8}$

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

- a)  $\{\sqrt{2}, -\sqrt{2}, 2, -2\}$
- b)  $\{\sqrt{2}i, -\sqrt{2}i, 2, -2\}$
- c)  $\{0, 1, -1\}$
- d)  $\{0\}$
- e)  $\{1\}$

3. What is the solution set of the equation  $\sqrt{3x+18} = x - 6$ ?

- 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:  $3x^2 + x^2 - 27x < 0$

- 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

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

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)  $f^{-1}(x) = \sqrt[3]{x+8}$
- 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)  $f^{-1}(x) = \sqrt[3]{x+2} - 6$

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**Clifford Lane**



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