East Los Angeles College
Department of Mathematics
Math 125
Practice Test 2

Evaluate the following:

1. $\sqrt{64}$
2. $\sqrt{-36}$
3. $\sqrt[3]{-64}$
4. $\sqrt[3]{27}$

Simplify the following:

5. $\sqrt{75}$
6. $\sqrt[3]{24}$
7. $\sqrt{16x^3}$
8. $\sqrt{48x^6}$
9. $\sqrt{40x^2y^5}$
10. $\sqrt[3]{48x^2y^6}$

Add/Sub the following:

11. $3\sqrt{20} - 2\sqrt{12}$
12. $7\sqrt{50} + 2\sqrt{9}$

Multiply or Divide the following:

13. $\sqrt{7}(2 + \sqrt{7})$
14. $(4 + \sqrt{5})(3 - \sqrt{2})$
15. $(\sqrt{7} + \sqrt{2})^2$
16. $\frac{6}{\sqrt{5}}$
17. $\frac{5}{4+\sqrt{2}}$
18. $\frac{3-5i}{5+2i}$

Add or Sub the following complex numbers:

19. $(5 + 11i) + (2 - 5i)$
20. $(-3 + i) - (2 + 4i)$

Multiply or Divide the following:

21. $-2i(3 + 5i)$
22. $(7 - 5i)(6 + 2i)$
23. $(1 + 2i)^2$
24. $(1 + 5i)(1 - 5i)$

Solve for x by using the **Square Root Formula**.

25. $x^2 + 4 = 40$

26. $4x^2 - 5 = 31$

27. $(x + 7)^2 = 49$

28. $(x - 8)^2 = -36$

29. $(x - 5)^2 = 40$

30. $2(x - 4)^2 - 10 = 14$

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31. What is your name?

Answer Sheet

1		16	
2		17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
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11		26	
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