



Suffolk University
Department of Mathematics and Computer Science
Answers to Review Sheets for the Placement Exam

1. -3

2. 18

3. -9

4. 39

5. -28

6. 24

7. 30

8. 0

9. 20

10. -1

11. 9

12. 1

13. 25

14. $2x^3$

15. x^6

16. 9

17. 5

18. True

19. False

20. $\frac{1}{2}$

21. $\frac{16}{24}$

22. $2\frac{3}{7}$

23. $\frac{7}{2}$

24. 5

25. $\frac{25}{6}$ or $4\frac{1}{6}$

26. $\frac{7}{8}$

27. $\frac{2}{3}$
28. $\frac{17}{12}$ or $1\frac{5}{12}$
29. $\frac{3}{5}$
30. $\frac{9}{8}$ or $1\frac{1}{8}$
31. $\frac{1}{12}$
32. $\frac{63}{10}$ or $6\frac{3}{10}$
33. $\frac{25}{3}$ or $8\frac{1}{3}$
34. $4\frac{1}{12}$ or $\frac{49}{12}$
35. 1.131
36. 1.43
37. 0.11715
38. 0.00042
39. 4%
40. 0.624
41. .05
42. 0.4%
43. $11 - a$
44. $5 + 2x$
45. $\frac{28}{3}x$
46. $-2x + 3$
47. 17
48. 48
49. $A = 18$
50. $C = -8$
51. $x = -3$
52. $A = -4$
53. $D = 2$
54. $x = 3$
55.
a. 1
b. 0

56.

a. $x^2 + x - 2$

b. $x^2 - 16$

57.

a. $2x^2 - 3x + 4$

b. $2x^2 + 7x + 4$

58.

a. x^4

b. x^{-4}

59.

a. $x = \pm 10$

b. $x = \pm 7$

c. $x = \pm 7$

d. $x_1 = -1$

$x_2 = -2$

60. $y = 4x + 8$

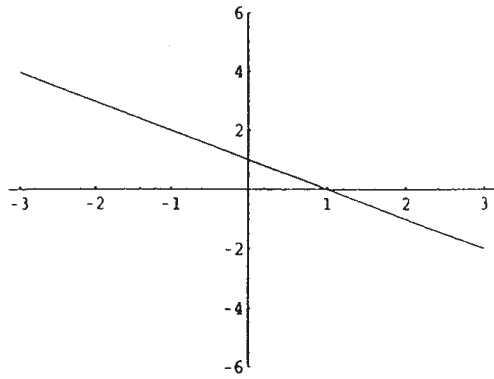
61.

a. $m = -\frac{2}{7}$

b. $m = \frac{2}{9}$

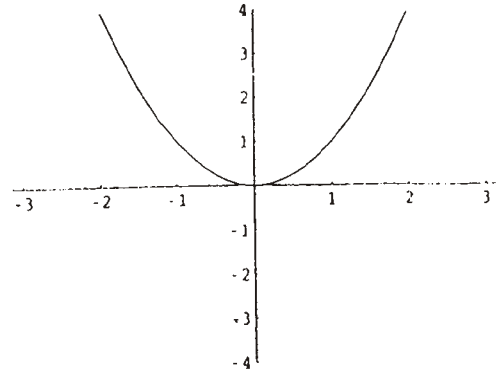
a.

$$y = -x + 1$$



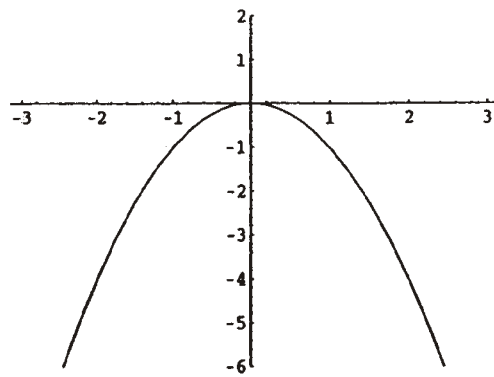
b.

$$y = x^2$$



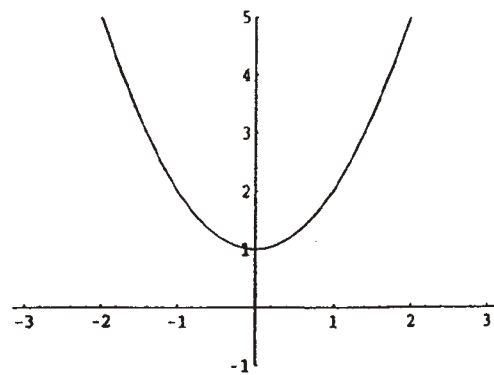
c.

$$y = -x^2$$



d.

$$y = x^2 + 1$$



- 63.
- a. 10
 - b. $x^{9/2}$
 - c. $\frac{1}{3}$
 - d. $2x^{10}$
 - e. $\frac{2x^3}{3}$

- 64.
- a. $x < 0$
 - b. $x < 3$
 - c. $x = -2$

- 65.
- a. $(-\infty, -4]$
 - b. $\left(\frac{9}{2}, \infty\right)$
 - c. $(-\infty, -2) \cup (2, \infty)$
 - d. $(-\infty, 13)$

66. $x = \sqrt{153}$

67. $x = 3$

68. $\cos q = \frac{12}{13}$

69. $\frac{p}{6}$

70. $\frac{2p}{3}$

71. $\frac{3p}{2}$

72. $\sin y$

73. $\sin q = \frac{4}{5}$

74. $\sqrt{2}$

75. $\frac{3}{2}$