

Suffolk University
Department of Mathematics and Computer Science
Answers to Review Sheets v2 for the Placement Exam

1. -4

2. 14

3. -15

4. 120

5. -72

6. 86

7. 37

8. $\frac{1}{7}$

9. 23

10. 4

11. 43

12. 1

13. 625

14. $5x^5$

15. $4x^{24}$

16. 11

17. 3

18. True

19. False

20. $\frac{2}{9}$

21. $\frac{36}{81}$

22. $2\frac{3}{5}$

23. $\frac{27}{4}$

24. 5

25. $8\frac{17}{30}$ or $\frac{257}{30}$

26. $\frac{4}{9}$

27. $\frac{9}{10}$

28. $\frac{38}{35}$ or $1\frac{3}{35}$

29. $\frac{1}{4}$

30. $1\frac{17}{19}$ or $\frac{36}{19}$

31. $\frac{1}{3}$

32. $\frac{19}{6}$ or $3\frac{1}{6}$

33. 17

34. $4\frac{1}{12}$ or $\frac{49}{12}$

35. 1.110

36. 2.36

37. 0.0106

38. 0.022

39. 75%

40. 0.793

41. .041

42. 54.3%

43. $9 - a$

44. $4x - 20$

45. $\frac{8}{-x}$
 9

46. $8 - 4x$

47. 2

48. 128

49. $A = 16$

50. $C = -18$

51. $x = -1$

52. $A = -6$

53. $d = 2$

54. $x = \frac{21}{8}$ or $x = 2\frac{5}{8}$

55. a. 8
b. 0

56.

a. $x^2 - x - 6$

b. $x^2 - 36$

57.

a. $2x^2 - 4x + 16$

b. $2x^2 + 15x + 25$

58.

a. x^3

b. x^{-5}

59.

a. $x = \pm 13$

b. $x = \pm 5$

c. $x = \pm 5$

d. $x = -3$

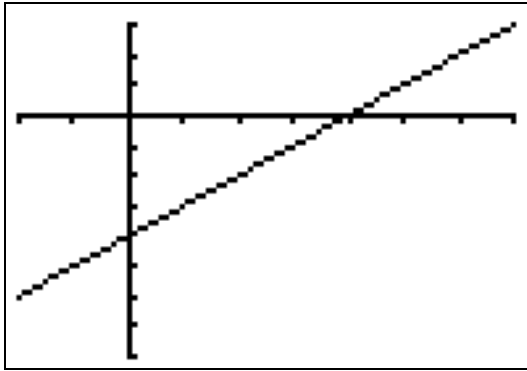
60. $y = 2x + 2$ or $y - 6 = 2(x - 2)$

61.

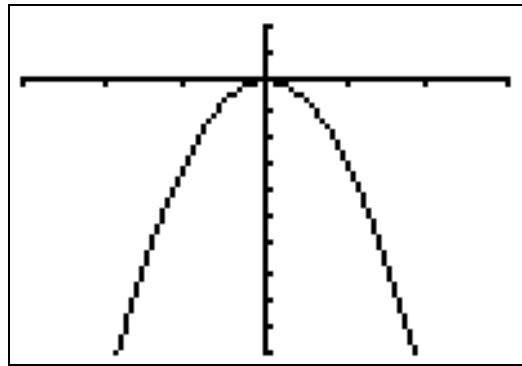
a. $m = -\frac{3}{5}$

b. $m = \frac{2}{5}$

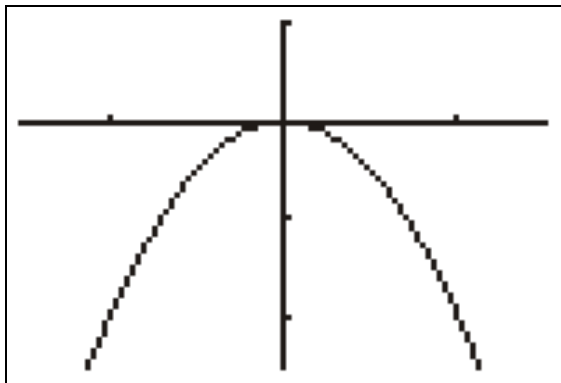
a.



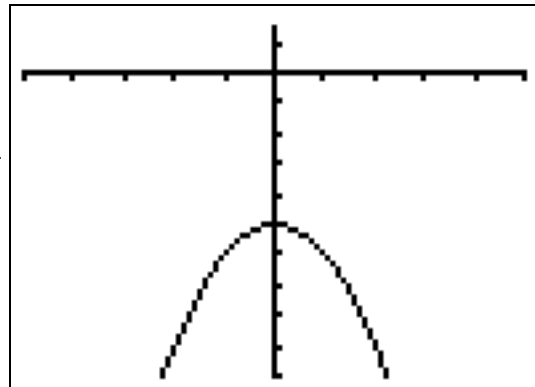
b.



c.



d.



63.

- a. 9
- b. x^2
- c. $\frac{1}{4}$
- d. $4x^7$
- e. $5x^7$

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

74. 1

75. $3\frac{1}{4}$ or $\frac{13}{4}$

64.

- a. $x < 0$
- b. $x < 4$
- c. $x = -\frac{4}{3}$

65.

- a. $(-\infty, -3]$ or $x \leq -3$
- b. $(\frac{4}{3}, \infty)$ or $x > \frac{4}{3}$
- c. $(-\infty, -3) \cup (3, \infty)$ or $x < -3$ or $x > 3$
- d. $(-\infty, 12)$ or $x < 12$

66. 3

67. 5

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

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

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

71. p

72. $\cos y$ or $|\cos y|$

