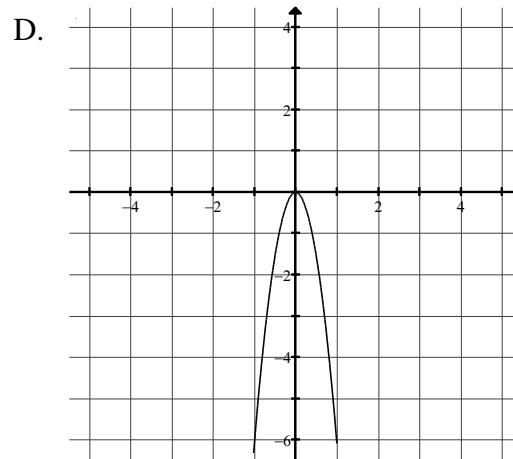
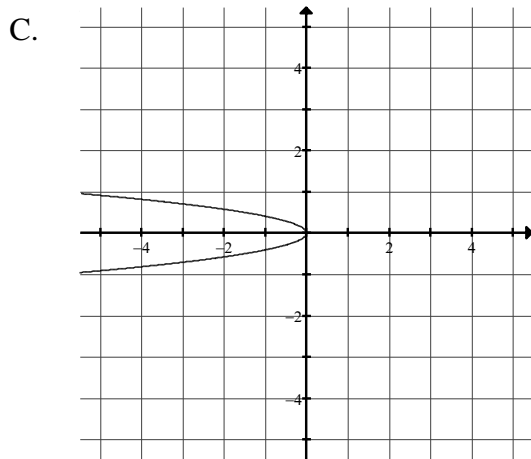
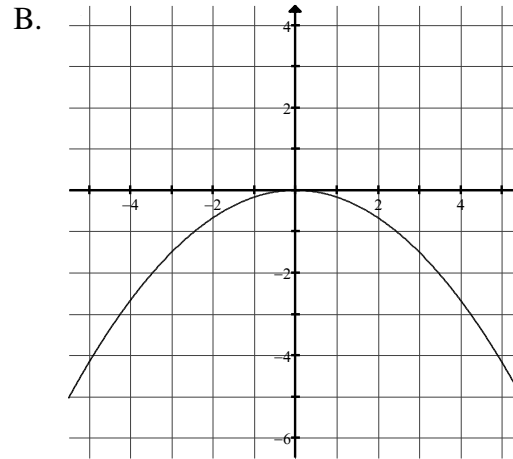
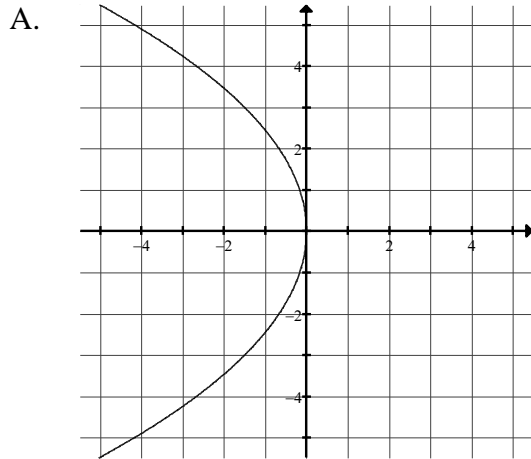


Homework 8 (8.1)

Problem 8.1.12 refers to problem 12 in Chapter 8, Section 1 of the online text. Record your answers to all the problems in the EMCF titled “**Homework 8.**”

1. Problem 8.1.12 Which could be the graph of the parabola?



E. None of the above

2. Problem 8.1.20 e f

A. (1, 6); 8

B. (1, 4); 8

C. (0, -3); 4

D. (1, 4); 4

E. None of the above

3. Problem 8.1.22a

A. $(x-4)^2 = 2(y+3)$

B. $(x-4)^2 = 2(y-13)$

C. $(x+4)^2 = 2(y-3)$

D. $(x-4)^2 = 2(y+3)^2$

E. $(x-1)^2 = 8\left(y - \frac{11}{8}\right)$

4. Problem 8.1.22 b c

A. $x = 3; (3, 4)$

B. $x = -3; (-3, 4)$

C. $x = -4; (-4, 3)$

D. $x = 4; (4, -3)$

E. $x = 1; (1, 1.375)$

5. Problem 8.1.22 d, e

A. $y = -2.5; (4, -3.5)$

B. $y = -3.5; (4, -2.5)$

C. $x = 3.5; (4.5, -3)$

D. $x = 4.5; (3.5, -3)$

E. $y = -1.5; (4, -1)$

6. Problem 8.1.22f

A. 8

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

C. 4

D. 1

E. 2

7. Problem 8.1.22g

A. $(3.5, -2.5), (4.5, -2.5)$

B. $(2, -2.5), (6, -2.5)$

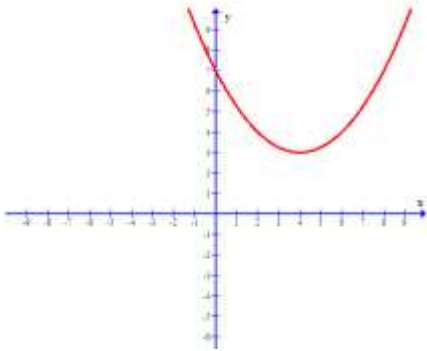
C. $(3, -2.5), (5, -2.5)$

D. $(3, -3), (5, -3)$

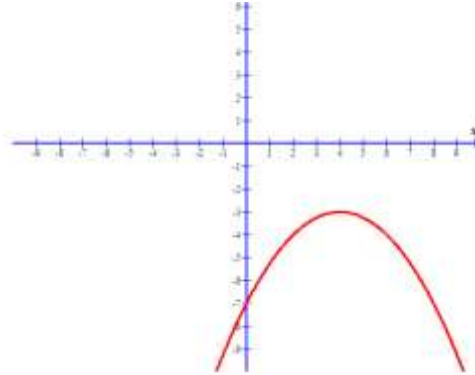
E. $(3, -2), (5, -2)$

8. Problem 8.1.22h: Which of these could be the graph of the parabola?

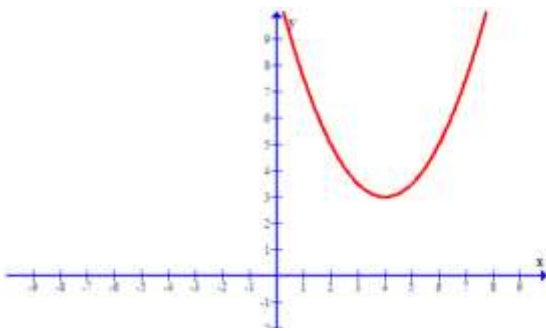
A.



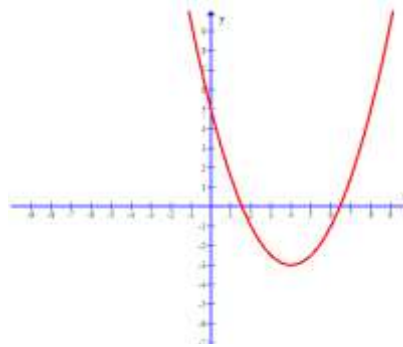
B.



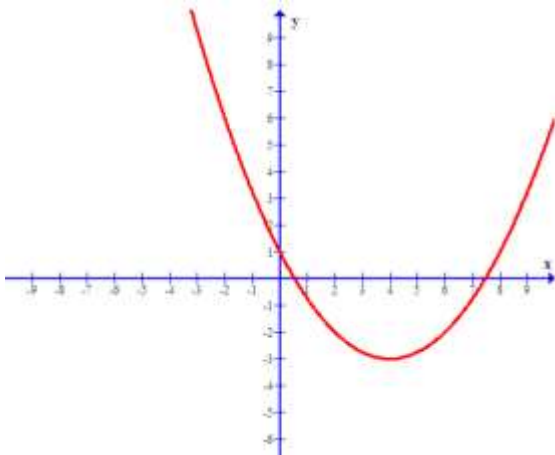
C.



D.



E.



9. Problem 8.1.28 c d

A. $(2, -1); \quad x = 2$

B. $(4, 0); \quad y = 3$

C. $(2, -1); \quad y = 2$

D. $(4, 2); \quad y = -4$

E. $(5, 1); \quad x = 5$

10. Problem 8.1.38

A. $x^2 = 8(y-1)$

B. $(x-1)^2 = 2(y+3)$

C. $(x-4)^2 = -8(y-3)$

D. $(x-4)^2 = 2(y-3)$

E. None of the above

11. The vertex of a parabola is a point on the parabola that also is on its axis of symmetry.

A. True

B. False

For numbers 12 – 15, match each equation to its graph.

12. $y^2 = 4x$

13. $y^2 = -4x$

14. $x^2 = 4y$

15. $x^2 = -4y$

