

Answers to Homework #s 83 - 88



8-83. See below:

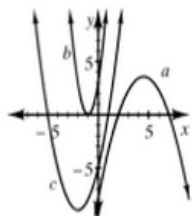
- a. $x = 1$ or $\frac{4}{3}$
- b. $x = 0$ or -6
- c. $x = -5$ or $\frac{3}{2}$

8-84. The result must be the original expression because multiplying and factoring are opposite processes; $65x^2 + 212x - 133$.

8-85. See below:

- a. $x = 3$ or $-\frac{2}{3}$
- b. $x = 2$ or 5
- c. $x = -3$ or 2
- d. $x = \frac{1}{2}$ or $-\frac{1}{2}$

8-86. See graph below:



8-87. See below:

- a. true
- b. false
- c. true
- d. true
- e. false
- f. false

8-88. See below:

- a. -1
- b. ≈ 1.6
- c. -3

Answers to Homework #'s 92 -97



8-92. See below:

a. $y = x^2 + 2x - 8$

b. $y = x^2 - 6x + 9$

c. $y = x^2 - 7x$

d. $y = -x^2 - 4x + 5$

8-93. $m = \frac{1}{2}$, (0, 4)

8-94. See below:

a. ≈ -1.4 and ≈ 0.3

b. The quadratic is not factorable.

8-95. See below:

a. $x = 4$ or -10

b. $x = -8$ or 1.5

8-96. They are the same.

a. 4

b. -10

c. -8

d. 1.5

8-97. See below:

a. (1, -1)

b. $(-2, \frac{1}{2})$