

Math 094
Final Exam

Review

Dear Student:

Enclosed is a study packet for your Math 094 final exam.

To do well on the final exam we recommend that you do the following:

- 1) Study the *Chapter Highlights* at the end of each chapter in the textbook.
- 2) Work the *Chapter Test* and the end of each chapter in the textbook.
- 3) Work the *Practice Final Exam* in this packet.
- 4) Work the *additional story problems* in this packet.

Good Luck!

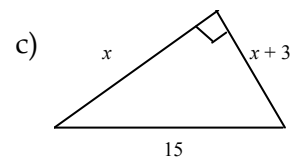
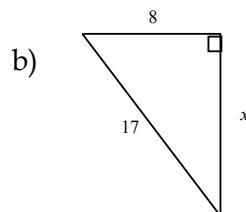
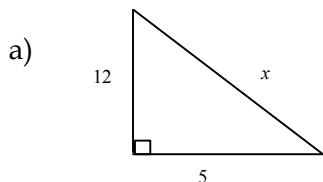
Department of Mathematics

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Additional Story Problems

- 1) Find the length and width of a rectangle if the perimeter is 1280 inches and the length is 90 inches more than the width.
- 2) The sum of three consecutive odd integers is 243. Find the integers.
- 3) If 2 cups of sugar is used to make 5 dozen cookies, how much will be needed to make 12 dozen cookies for the school picnic?
- 4) Sally has a tin can that contains \$5.65 in quarters and dimes. There are 34 coins in the can. How many of each type does she have?
- 5) If John can paint the fence in 3 hours and Ray can paint it in 7 hours, how long will it take them if they work together?
- 6) The area of a rectangle is 50ft^2 . The width is 5 ft less than the length. Find the measures of the length and the width.
- 7) Harry needs to mix a 10% iodine solution with a 35% iodine solution to produce 50 gallons of a 23% iodine solution. How much of each solution should he use?
- 8) Solve for x using the Pythagorean Theorem.



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Additional Story Problems

Answers

1) width = 275 inches; length = 365 inches

2) 79, 81, 83

3) $4\frac{4}{5}$ cups

4) 19 dimes, 15 quarters

5) $2\frac{1}{10}$ hours

6) width = 5 *ft*; length = 10 *ft*

7) 24 gals. at 10%; 26 gals. at 35%

8) a) 13

b) 15

c) $x = 9$, $x + 3 = 12$