

Homework for the Weekend
Pages 603-04, Problems 3-45 (odd)

Find the difference

1. $14.7 - (-2.3)$

3. $-7 + (-4)$

Simplify

2. $9 + 7y - 2 - 5y$

4. Three plus the square root of x ($x = 9$)

5. Please complete the chart

| <u>Year</u> | <u>Hikers who started</u> | <u>Hikers who finished</u> | <u>Percent completed</u> |
|-------------|---------------------------|----------------------------|--------------------------|
| 2001 | 2380 | ? | 16.6% |
| 2002 | ? | 376 | 20% |
| 2003 | 1750 | 352 | ? |

6. During the period 1992-2000, the number C of people participating in cross country and the number S of people participating in snowboarding can be modeled by

$$C = 0.067t^3 - 0.107t^2 + 0.27t + 3.5$$

$$S = 0.416t + 1.24$$

- write an equation for the total number of people T participating in cross-country skiing and snowboarding in years since 1992
- Find participation in 1992 and 2000
- Average rate of change between the years

Solve the following the quadratic equations

7. $m^2 - 7m - 120$

8. $c^2 - 15c + 44$

Factor

9. $n^2 - 64$

10. $y^2 - 10y + 25$