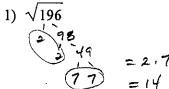
Homework 29.1

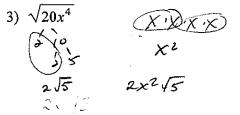
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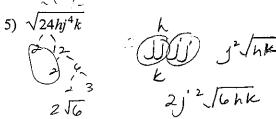
Simplify.



$$\frac{9}{7} = 2.7$$

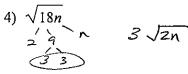
$$= 14$$

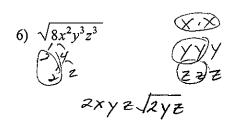




2)
$$3\sqrt{12}$$

$$3.2\sqrt{3} = 6\sqrt{3}$$





7) The school that Natalie goes to is selling tickets to a play. On the first day of ticket sales the school sold 6 adult tickets and 6 child tickets for a total of \$138. The school took in \$168 on the second day by selling 6 adult tickets and 9 child tickets. Find the price of an adult ticket and the price of a child ticket.

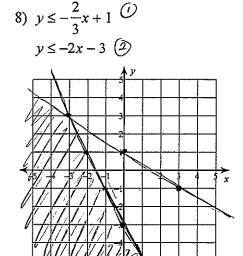
$$-64 + 6C = 138$$

$$64 + 9C = 168$$

$$3C = 30$$

-64 + 6C = 138 $\frac{3C = 30}{3}$ $\frac{6A + 9C = 168}{3C = 30}$ C = 10 3C = 30 Child = 6 Total = 138 Total = 138

Sketch the solution to each system of inequalities.



(i)
$$m = -\frac{2}{3}$$

$$6A + 6(10) = 138$$

$$6A + 60 = 138$$

$$-60 - 60$$

$$6A = 78$$

$$6 = 78$$

$$6 = 78$$

$$6 = 78$$

Answers to Homework 29.1

- 1) 14
- $\begin{array}{cc}
 5) & 2j^2\sqrt{6hk} \\
 8)
 \end{array}$

- 2) $6\sqrt{3}$ 3) $2x^2\sqrt{5}$ 4) $3\sqrt{2n}$ 6) $2xyz\sqrt{2yz}$ 7) adult ticket: \$13, child ticket: \$10

