

3a) around (70, 40)

3b) Number of miles driven for which the two costs are equal; cost of the rental.

3c) Rhodes is less expensive when 80 miles are driven because at $x=80$, the Rhodes' line is below the Extra Value line.

5a) $30 + 6w$

5b) $150 - 5w$

5c) after about 11 weeks

6a) Both would pay \$1,800

6b)

\$16,000	? \$1,600	? \$1,560
\$18,000	? \$1,700	? \$1,680
\$20,000	? \$1,800	? \$1,800
\$22,000	? \$1,900	? \$1,920
\$24,000	? \$2,000	? \$2,040
\$26,000	? \$2,100	? \$2,160

6c) more than \$20,000

7) $x = 1$

8) $y = -1$

10) about 9.8%

13) 372 coins

15a) They are equivalent

15b)

Distributing the left-hand side of both equations yields $-18x - 18 + 6x$, which simplifies to $-12x - 18$, in the first equation and $-12x - 18$ in the second equation. These expressions are identical.

2a) $3x$

2b) 4

2c) Divide; 4

4a) $x = 20$

4b) $x = 20$