

pg 332-333
12-24 eoe
28-34 e
40-52 e
Due Tuesday

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$$\begin{aligned}4x + 15 &= 2x - 7 \\4x - 2x + 15 &= 2x - 2x - 7 \\2x + 15 &= -7 \\2x + 15 - 15 &= -7 - 15 \\2x &= \frac{-22}{2} \\x &= -11\end{aligned}$$

$$\begin{aligned}2.4 - 3m &= 6.4m - 8.88 \\2.4 - 3m + 3m &= 6.4m + 3m - 8.88 \\2.4 &= 9.4m - 8.88 \\2.4 + 8.88 &= 9.4m - 8.88 + 8.88 \\11.28 &= \frac{9.4m}{9.4} \\1.2 &= m\end{aligned}$$

Car rental

plan a \$80 plus \$20 each day days = d
plan b \$120 plus \$15 each day

$$\begin{aligned}80 + 20d &= 120 + 15d \\80 + 20d - 15d &= 120 + 15d - 15d \\80 + 5d &= 120 \\80 - 80 + 5d &= 120 - 80 \\5d &= \frac{40}{5} \\d &= 8 \text{ days}\end{aligned}$$

Cell phone

plan a \$20 plus 35 per minute minutes = m
plan b \$35 plus .15 per minute

$$\begin{aligned}20 + .35m &= 35 + .15m \\20 + .35m - .15m &= 35 + .15m - .15m \\20 + .20m &= 35 \\20 - 20 + .20m &= 35 - 20 \\1.2m &= \frac{15}{1.2} \\m &= 12.5 \text{ minutes}\end{aligned}$$