

## 1-32. See below.

a. $x=\frac{9}{24}=\frac{3}{8}=0.375$
b. no solution
c. $x \approx 6.44$
d. $x=0.5$

## 1-33. See below.

a. Yes, his plants will be dead. If his plants are indoors, they will be dead because he will be gone for 2 weeks and so he did not water them at least once a week. If he left them outdoors, they will still be dead because it has not rained for 2 weeks, so he needed to water them once a week as well.

## 1-34. See below.

a. $y=\frac{2}{3} x-4$
b. $y=-\frac{5}{2} x+\frac{7}{2}$

## 1-35. See below.

a. $6 x+6$
b. $6 x+6=78$, so $x=12$ and the rectangle is 15 cm by 24 cm .
c. $(2 \cdot 12)(12+3)=360$

## 1-36. See below.

a. $-\frac{3}{5}$
b. $\frac{6}{3}^{\frac{2}{1}}=2$
c. $-\frac{3}{6}=-\frac{1}{2}$
d. ${ }^{\frac{0}{7}}=0$

