# 1-32. See below.

$$x = \frac{9}{24} = \frac{3}{8} = 0.375$$

- 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. 
$$6x + 6$$

b. 
$$6x + 6 = 78$$
, 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. 
$$-\frac{3}{6} = -\frac{1}{2}$$

$$d. \quad \frac{0}{7} = 0$$