



**2-31. See below.**

- a.  $-2, 3$
- b.  $(-2, 3)$ ; yes

**2-32. See below.**

- a. 20 square units
- b. 2,600 square units; subtract the  $x$ - and  $y$ -coordinates to find the length of the two sides.

**2-33. See below.**

- a. We do not know the angles are equal, because we do not know if  $\overline{BD} \parallel \overline{EG}$
- b. The diagram does not have parallel line marks.

**2-34. See below.**

- a.  $x = 17.5$  (corresponding angles)
- b.  $x = 5$  (multiple relationships possible)

**2-35. See below.**

- a. 12 boys
- b. 22 girls
- c.  $\frac{2}{3}$
- d. 7 boys left, 23 students, so  $\frac{7}{23}$

**2-36. See below.**

- a. an isosceles triangle
- b. a rectangle