

LESSON 15-3 Practice and Problem Solving: A/B

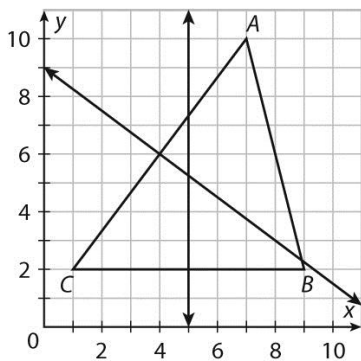
- $\angle F$; $\angle D$; $\angle E$
- \overline{HI} ; \overline{GH} ; \overline{GI}
- $\angle Y$; $\angle X$; $\angle Z$
- The three segments cannot make a triangle because $8 + 6 < 15$; the two shorter sides together do not reach from one end of the longer side to the other.
- $0 < b < 2s$; $0 < A < 180^\circ$
If the congruent sides are very close together, the base length is close to 0, and the measure of the angle opposite the base is close to 0. If the congruent sides are very spread out, the base is close to $2s$ (the combined length of the congruent sides), and the angle is close to 180° .
- between 7 and 23 feet
- Renaldo could travel between 8562 miles and 15,502 miles.

LESSON 15-4

Practice and Problem Solving: A/B

- 15.5
- 19
- $\frac{7}{2}$
- 53
- 26
- 24
- (2.5, 2.5)
- (0, 3.25)

Graph for problems 9 and 14:



- (4, 6)
- $\frac{4}{3}$
- $-\frac{3}{4}$
- $y = -\frac{3}{4}x + 9$
- circumcenter