



5-29. See below.

- a. $x = \pm 5$
- b. All numbers
- c. $x = 2$
- d. No solution

5-30. Using $\cos A = \frac{5}{13}$, $\sin A = \frac{12}{13}$, or $\tan A = \frac{12}{5}$, $A \approx 67.4^\circ$

5-31. ≈ 11.5 seconds

5-32. See below.

- a. 1
- b. $\frac{20}{36}$

5-33. Area ≈ 294.55 sq m, perimeter ≈ 78.21 m

5-34. See below.

- a. It uses circular logic.
- b. Students should reverse the arrow between “Marcy likes chocolate” and “Marcy likes Whizzbangs.” They should also remove the arrow connecting “Marcy likes chocolate” and “Whizzbangs are 100% chocolate.”

5-35. 9.38 minutes