

Business PreCalculus MATH 1643 Section 004, Spring 2014
Answer key: Worksheet 11

1- Answers:

- a. The x -intercepts are $(4, 0)$ and $(2, 0)$. The y -intercept is $(0, 8)$.
- b. The x -intercept are $(1, 0)$ and $(-1, 0)$. There is no y -intercept.
- c. The x -intercepts are $(-2, 0)$ and $(2, 0)$. The y -intercept are $(0, -2)$ and $(0, 2)$.

2- Answers:

- a. Symmetric with respect to the origin.
- b. Symmetric with respect to the y -axis.
- c. Symmetric with respect to the y -axis.

3- Answers:

- a. Center is $(1, 1)$ and radius is $r = \sqrt{6}$.
- b. Center is $(\frac{1}{2}, 0)$ and radius is $r = \frac{1}{2}$.
- c. Center is $(0, -1)$ and radius is $r = 1$.

4- $B = (-14, 55)$.

5- Answers:

- a. No, because the length of PQ is $\sqrt{52}$ while the length of PR is $\sqrt{65}$.