Chapter 2 Review Worksheet

1. Use long division to divide.



1.  Show solutions on a number line using interval notation.
2. Use synthetic division to divide.



1. At a basketball game, workers toss T-shirts to the crowd in the stands out of a sling-shot. The height of a T-shirt is modeled by the function, where is height in feet and is the time in seconds after the toss.
2. How much time does it take the T-shirt to reach maximum height?
3. What is the maximum height of the T-shirt if it is not caught?
4. A boy shoots an arrow straight up in the air. The arrow’s height (in meters above the ground) after seconds is given by  After how many seconds will it hit the ground?

Sketch the graph for #6 – 9. Label the zeros, asymptotes, holes, and all local maximum and minimums as necessary.

1.  9. 
2. 
3. 