Section 2.2 Exercises

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2.11   (a) $\sqrt{2}$ is an irrational number.

      (b) 0 is not a positive integer.

      (c) 111 is not a prime number.

2.13   (a) The real number r can be greater than $\sqrt{2}$.

      (b) The absolute value of the real number a is greater than or equal to 3.

      (c) No more than one angle of the triangle is 45°.

      (d) The area of the circle is less than 9π.

      (e) All sides of the triangle have differing lengths.

      (f) The point P in the plane lies inside of the circle C.