8.8-Review #1

#1-3 Use the Distance Formula (Pythagorean Theorem) to find the lengths of sides then find the area and the perimeter of the figure.

1)

Units

2)

units

3) A rectangle with vertices:

units

4) Find the area of the given polygon.

#5-6 Find the area of the shaded region.

5)

6)

7) Find the midpoint of segment with the given endpoints

8) Given the midpoint and one endpoint of a line segment, find the other endpoint

Endpoint:

Midpoint:

9) Write in simplest radical form.

a)

b)

c)

Complete the statement with always, sometimes, or never

10) A horizontal line is ALWAYS perpendicular to a vertical line.

11) The product of the slopes of two nonvertical perpendicular lines ALWAYS equal to .

12) The line is NEVER perpendicular to lines with a slope of .

13) The line is ALWAYS perpendicular to a line with a lope of .

14) Which are NOT slopes of perpendicular lines? Circle your answer.

a)

b)

c)

d)

15) Write the equation of a line through the points in point slope form and slope intercept form.

Point Slope Form:

Or

Slope Intercept Form: