1. Consider the following diagram showing rectangle . The equation of the line passing through points  and  is . The coordinates for points C and D are given.

 a) Find the equation of line *BC*.

 b) Find the intersection point between lines *AB* and *BC.* (Hint: Use systems)

 c) Find the area of the rectangle.

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1. Find the coordinates of point B given that D is the midpoint of segment AB.
2. Consider the following diagram. Find the area of .

Remember Area triangle = (base)(height)÷2

1. Consider the following diagram where point C is the midpoint of segment AB. Is triangle CDE scalene, isosceles or equilateral?

