Areas

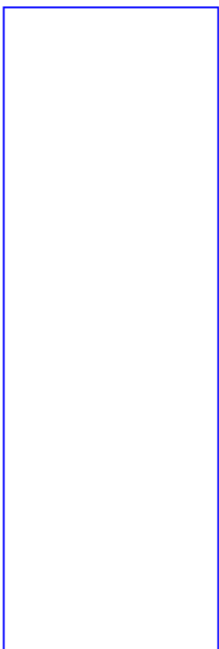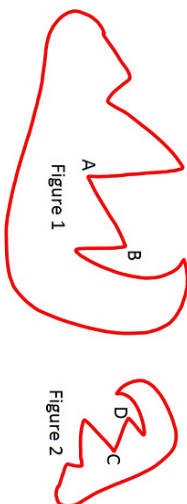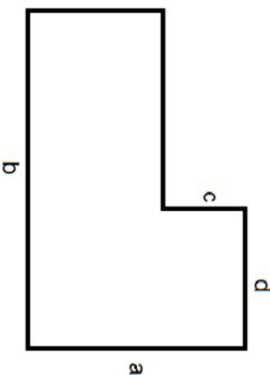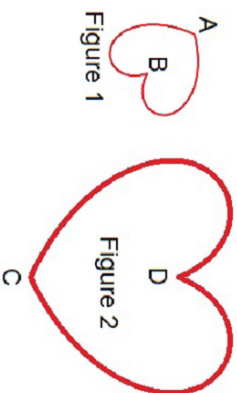
The two figures are similar. The length of side $\overline{AB}$ is 69 meters and the lenght of the corresponding side of $\overline{DC}$ is 31 meters. If the area of figure 1 is 5,285.5 square meters, what is the area of figure 1 to the nearest tenth of a square meter?
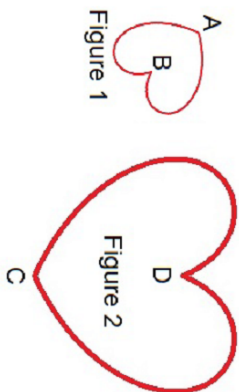

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You are helping your buddy, Steve, build a deck in his back yard. Steve has made an outline of the deck. Every half an inch in the outline is one foot for the actual deck. The lengths, in inches, on the drawing are as follows: a = 10, b = 14, c = 4, and d = 6. How many square feet will the actual deck be?
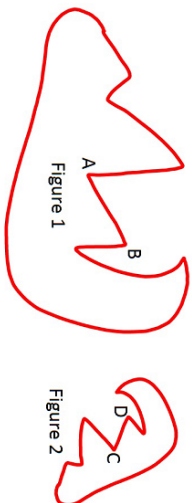

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The two figures are similar. The length from point A to point B is 18 centimeters and the lenght of the corresponding part from point C to point D is 72 centimeters. If the area of figure 1 is 186.3 square centimeters, what is the area of figure 2 to the nearest tenth of a square centimeter?
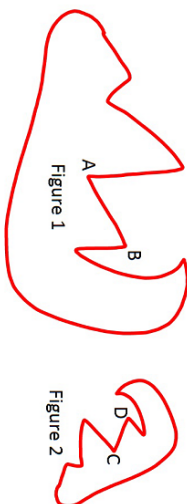

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1

The two figures are similar. The area of figure 1 is 606.9 square feet, and the area of figure 2 is 7064.4 square feet. If the length from point C to point D is 116 feet, what is the lenght of the corresponding part from point A to point B to the nearest foot?

Figure 1
A
B

Figure 2
D
C

The two figures are similar. The length of side $\overline{AB}$ is 11 feet and the lenght of side $\overline{DC}$ is 6 feet. If the area of figure 1 is 726.0 square feet, what is the area of figure 2 to the nearest tenth of a square foot?

Figure 1
A
B

Figure 2
D
C

The two figures are similar. The area of figure 1 is 16,819.2 square yards, and the area of figure 2 is 2,635.3 square yards. If the length of side $\overline{AB}$ is 48 yards, what is the lenght of the corresponding side of $\overline{CD}$ to the nearest yard?

Figure 1
A
B

Figure 2
D
C

The two figures are similar. The length from point A to point B is 14 centimeters and the lenght of the corresponding part from point C to point D is 68 centimeters. If the area of figure 1 is 112.7 square centimeters, what is the area of figure 2 to the nearest tenth of a square centimeter?

Figure 1
A
B

Figure 2
D
C