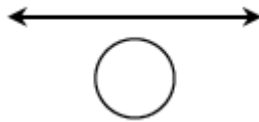**1-63.** The diagram below shows a flat surface containing a line and a circle with no points in common. Can you visualize moving the line and/or circle so that they intersect at exactly one point? Two points? Three points? Explain each answer and illustrate each with an example when possible. 1-63 HW eTool (Desmos). Homework Help ✎
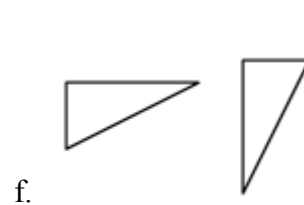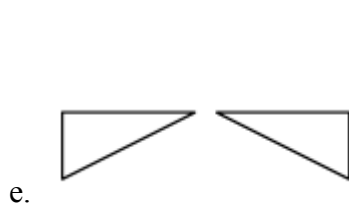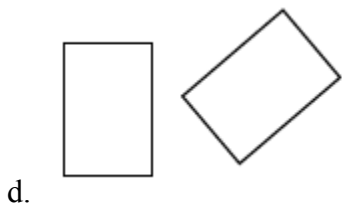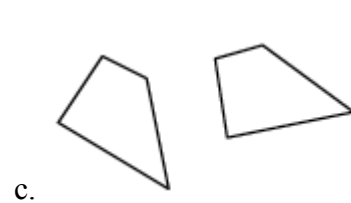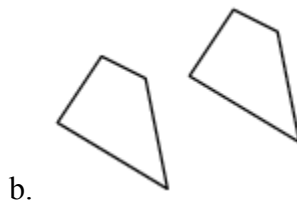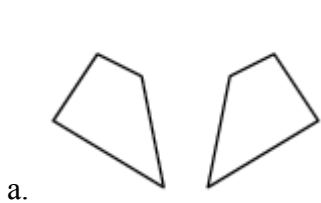
Intersect in One Point   Intersect in Two Points   Intersect in Three Points

1-64. Decide which transformation was used on each pair of shapes below. Some may have undergone more than one transformation, but try to name a single transformation, if possible. Homework Help ✎

a.   b.   c.

d.   e.   f.

1-65. The perimeter of the triangle below is 52 units. Write and solve an equation based on the information in the diagram. Use your solution for x to find the measures of each side of the triangle. Be sure to confirm that your answer is correct. Homework Help ✎
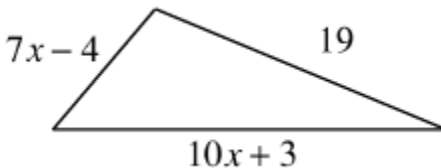
1-66. Bertie placed a transparent grid made up of unit squares over each of the shapes she was measuring below. Using her grid, approximate the area of each region. Homework Help ✎
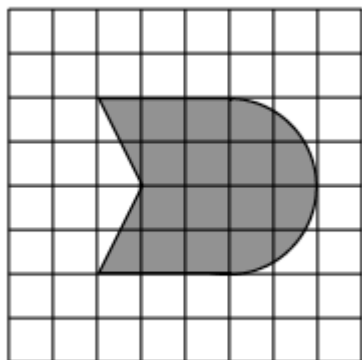
a.
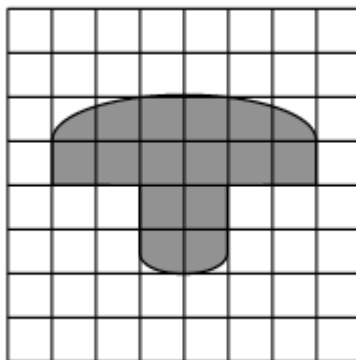
b.

1-67. For each equation below, find y if $x = -3$. Homework Help ✎

a. $y = -\frac{1}{3}x - 5$

b. $y = 2x^2 - 3x - 2$

c. $2x - 5y = 4$