M214/M217 Geometry

1.1.3 Review & Preview

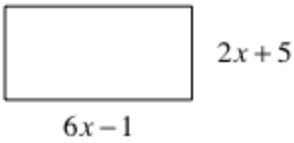
1-25. Read the Math Notes box for this lesson, which describes how to find the area and perimeter of a shape. Then examine the rectangle at right. If the perimeter of this shape is 120 cm, which equation below represents this fact? Once you have selected the appropriate equation, solve for x. Homework Help ✎

a. $2x + 5 + 6x - 1 = 120$

b. $4(6x - 1) = 120$

c. $2(6x - 1) + 2(2x + 5) = 120$

d. $(2x + 5)(6x - 1) = 120$



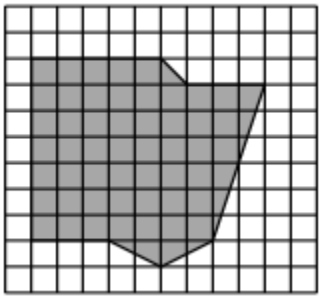
1-26. Delilah drew 3 points on her paper. When she connects these points, must they form a triangle? Why or why not? Draw an example on your paper to support your reasoning. Homework Help ✎

1-27. Copy the table below onto your paper. Complete it and then write an equation that relates x and y. 1-27 HW eTool (Desmos). Homework Help ✎

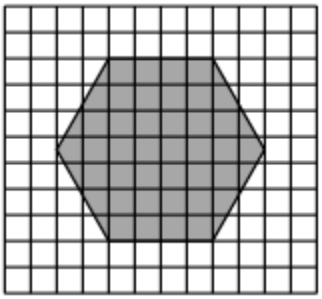
x	3	−1	0	2	−5	−2	1
y	0			−1			−2

1-28. Rebecca placed a transparent grid of square units over each of the shapes she was measuring below. Using her grid, determine the area of each shape. Homework Help ✎

a.



b.



1-29. Evaluate each expression below if $a = -2$ and $b = 3$. Homework Help ✎

a. $3a^2 - 5b + 8$

b. $\frac{2}{3}b - 5a$

c. $\frac{a+2b}{4} + 4a$