Bellwork Alg 2A Friday, October 7, 2016

1. Solve. $|x-43|+7.1>37$

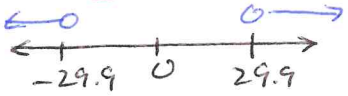
2. The perimeter of a rectangle is 50. The width is eleven less than five times the length. Write and solve an equation to find the dimensions of the rectangle.

EQ: Dimensions:

3. Solve for K. State restrictions on the variables. $\frac{KP-BN}{G-C}-W=K$

Bellwork Alg 2A Friday, October 7, 2016 Answers

1. Solve. $|x-43|+7.1>37$ $|x-43|>29.9$ →



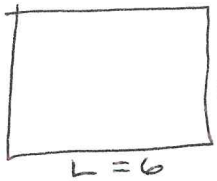
$x-43<-29.9$ or $x-43>29.9$
$+43\ +43$ $+43\ +43$
$x<13.1$ or $x>72.9$

$x<13.1$ or $x>72.9$

2. The perimeter of a rectangle is 50. The width is eleven less than five times the length. Write and solve an equation to find the dimensions of the rectangle.

EQ: Dimensions: 6 x 19

$50=2L+2w$
$50=2L+2(5L-11)$
$50=2L+10L-22$
$72=12L$ $L=6$



$w=5L-11$
$=5(6)-11$
$w=19$

3. Solve for K. State restrictions on the variables. $\frac{KP-BN}{G-C}-W=K$ $+w$ $+w$

$KP-KG=-CK+Gw-Cw+BN$

$K(P-G)=-CK+Gw-Cw+BN$
$P-G$ $P-G$

$K=\frac{-CK+Gw-Cw+BN}{P-G}$

$G-C\neq0$
$P-G\neq0$

$(G-C)\cdot\frac{KP-BN}{G-C}=(K+w)(G-C)$ →

	G	-C
K	KG	-CK
+w	+Gw	-Cw

$KP-BN=KG-CK+Gw-Cw$
$-KG$ $-KG$

$KP-KG-BN=-CK+Gw-Cw$
$+BN$ $+BN$