

Geometry**Unit: Introduction to Proofs****Section: Informal and Two Column Proofs****Review Worksheet**

1. Fill in the table below to complete the proof.

Given: $-2x + 25 = 5 + 3(x - 5)$

Prove: $x = 7$

Statement	Reasons
$-2x + 25 = 5 + 3(x - 5)$	
$-2x + 25 = 5 + (3x - 15)$	
$-2x + 25 = (5 - 15) + 3x$	
$-2x + 25 = -10 + 3x$	
$-2x + 25 + 2x = -10 + 3x + 2x$	
$25 + 0 = -10 + 5x$	
$25 = -10 + 5x$	
$15 + 10 = -10 + 5x + 10$	
$35 = 5x + -10 + 10$	
$35 = 5x + 0$	
$35 = 5x$	
$7 = x$	
$x = 7$	

2. What are Euclid's 5 Postulates?

3. What is the basic process of a proof by contradiction?

4. Give a counterexample to the statement "All juniors drive themselves to school".