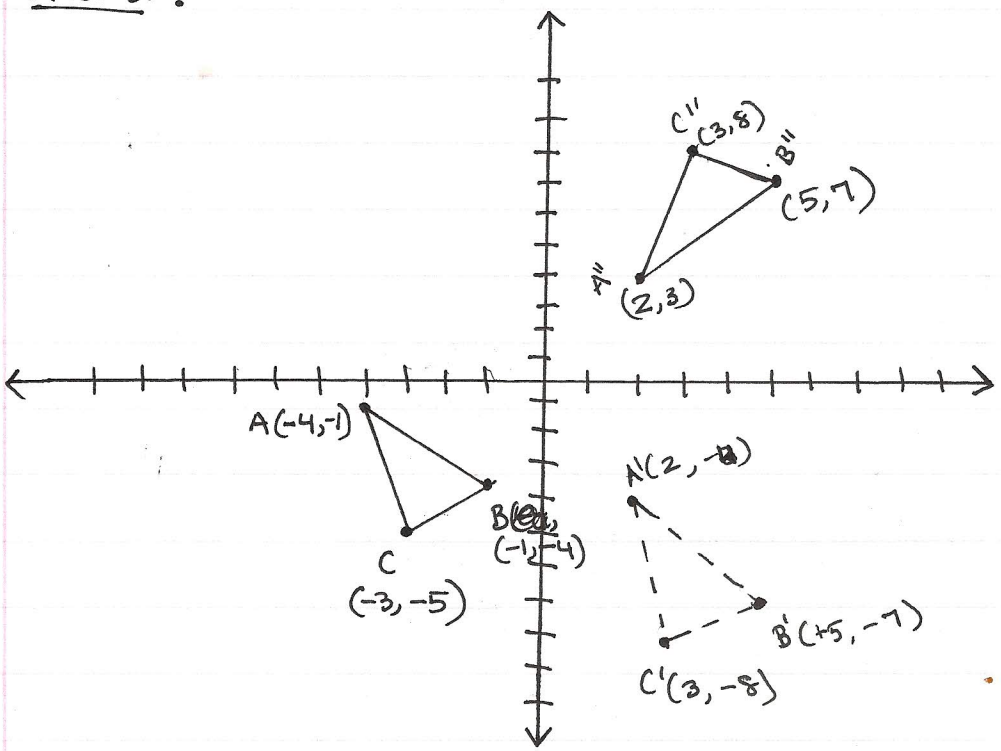
Dhruv
Sethi

Practice Problem #1

Translate figure ABC along the vector ~~XXXXX~~ ⟨6, -3⟩ then reflect it across the axis. What are the coordinates of the resulting figure?

Answer:



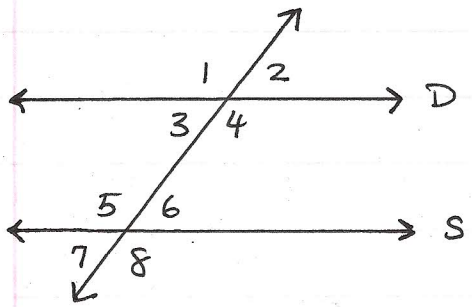
Explanation: Translate ABC using $(x+6, y-3)$ to get A'B'C'. Then reflect A'B'C' to get A''B''C''. The new coordinates would be:

A''(2,3)
B''(5,7)
C''(3,8)

Practice Problem #2

$m\angle 4 = 105°$, $m\angle 6 = 75°$

Prove D||S



Answer:

Statements	Reasons
$m\angle 4 = 105°$ $m\angle 6 = 75°$	Given
$m\angle 4 + m\angle 6 = 180°$	Addition POE
$\angle 4$ and $\angle 6$ are supp.	Def. of supp. $\angle$'s
D||S	Converse of SSI us theorem

QED...

(quite easily done)