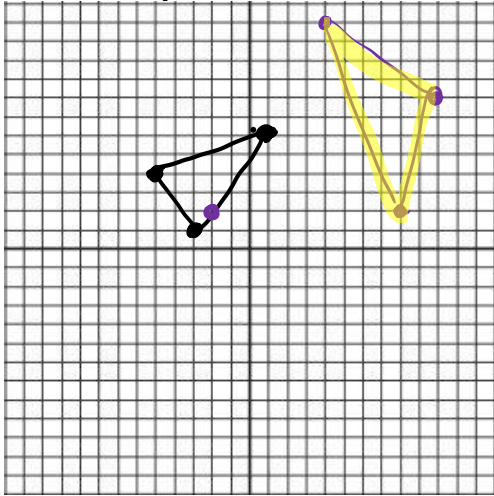


ALL TRANSFORMATIONS!

Key

①
 $\frac{V}{y \cdot 2}$
 $\frac{H}{x-5}$
 $x \rightarrow -1$

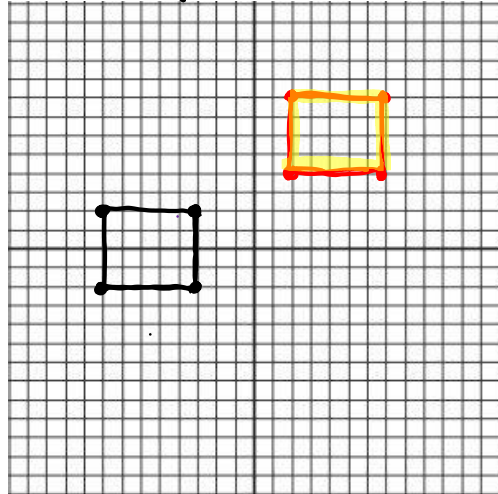
$2 \cdot f(-x+5)$



OP	NP
(-5, 4)	(0, 8)
(-3, 1)	(8, 2)
(1, 6)	(4, 12)

②

$f(x-10)+6$

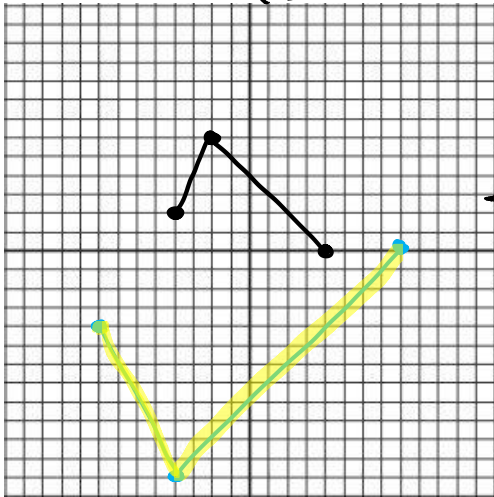


OP	NP
(-8, 2)	(2, 8)
(-8, 4)	(2, 4)
(-3, 2)	(7, 8)
(-3, 4)	(7, 4)

$\frac{V}{y+6}$
 $\frac{H}{x+10}$

③
 $\frac{V}{\text{opp of } y}$
 $\frac{H}{y \cdot 2}$
 $\frac{H}{x \cdot 2}$

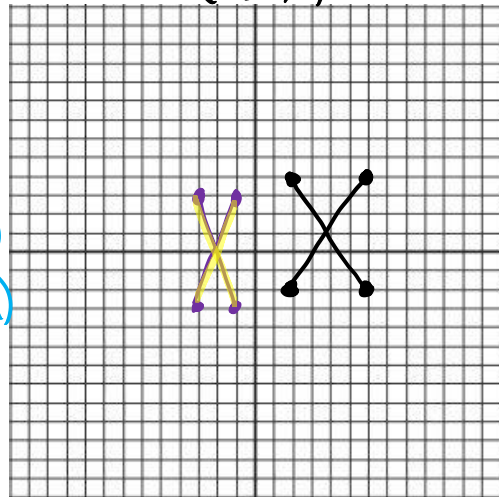
$-2 \cdot f(\frac{1}{2}x)$



OP	NP
(-4, 2)	(-8, -4)
(-2, 6)	(-4, -12)
(4, 0)	(8, 0)

④

$f(-2x)-1$

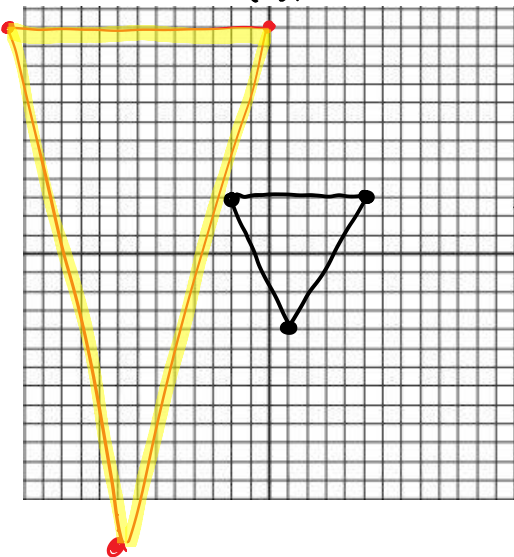


OP	NP
(2, 4)	(-1, 3)
(6, 4)	(-3, 3)
(6, 2)	(-3, -3)
(2, 2)	(-1, -3)

$\frac{V}{y-1}$
 $\frac{H}{\text{opp of } x}$
 $\frac{H}{x \cdot \frac{1}{2}}$

⑤
 $\frac{V}{y \cdot 4}$
 $\frac{H}{x-5}$
 $x \cdot 2$

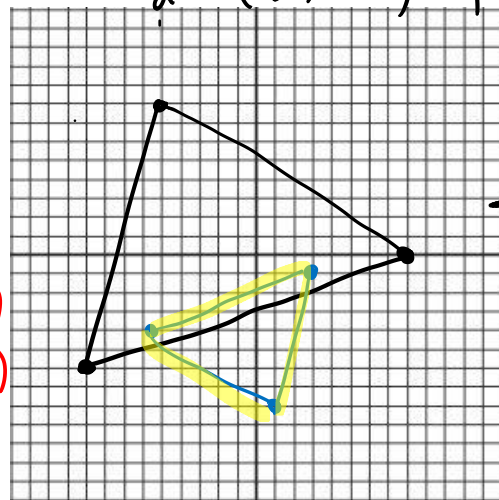
$4 \cdot f(\frac{1}{2}x+5)$



OP	NP
(-2, 3)	(-14, 12)
(5, 3)	(0, 12)
(1, -4)	(-8, 16)

⑥

$-\frac{1}{2} \cdot f(-2x-3)-4$



OP	NP
(-9, -6)	(3, -1)
(-5, 8)	(1, -8)
(8, 0)	(-5, -4)

$\frac{V}{y \cdot \frac{1}{2}}$
 $\frac{V}{\text{opp of } y}$
 $\frac{H}{y-4}$
 $\frac{H}{x+3}$
 $x \cdot \frac{1}{2}$
 $x \rightarrow -1$