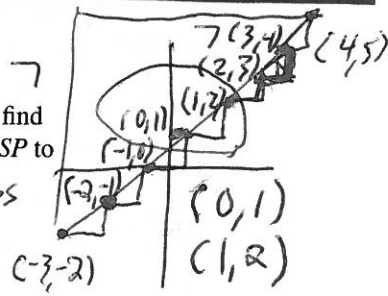
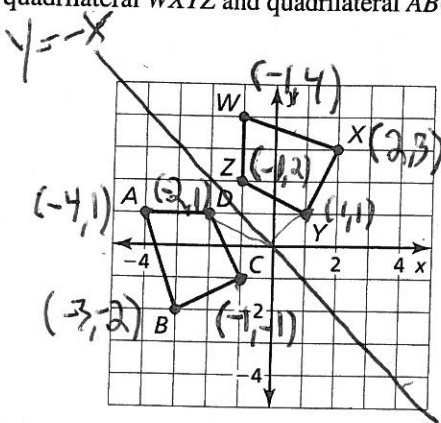


4. Graph the directed line segment  $ST$  with endpoints  $S(-3, -2)$  and  $T(4, 5)$ . Then find the coordinates of point  $P$  along the directed line segment  $ST$  so that the ratio of  $SP$  to  $PT$  is 3 to 4. (HSG-GPE.B.6)



3+4=7 steps

5. The graph shows quadrilateral  $WXYZ$  and quadrilateral  $ABCD$ . (HSG-CO.B.6)



- a. Write a composition of transformations that maps quadrilateral  $WXYZ$  to quadrilateral  $ABCD$ . *Reflection over  $y = -x$*
- b. Are the quadrilaterals congruent? Explain your reasoning. *Yes since that transformation maps  $ABCD$  to  $WXYZ$*
6. Which equation represents the line passing through the point  $(-6, 3)$  that is parallel to the line  $y = -\frac{1}{3}x - 5$ ? (HSG-GPE.B.5)

(A)  $y = 3x + 21$  X

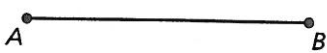
(B)  $y = -\frac{1}{3}x - 5$   $3 = -\frac{1}{3}(-6) - 5 = -3$  False point X

(C)  $y = 3x - 15$  X

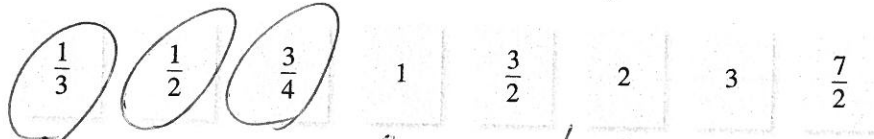
(D)  $y = -\frac{1}{3}x + 1$   $3 = -\frac{1}{3}(-6) + 1 = 3$  ✓

plug in same slope

7. Which scale factor(s) would create a dilation of  $\overline{AB}$  that is shorter than  $\overline{AB}$ ? Select all that apply. (HSG-SRT.A.1b)



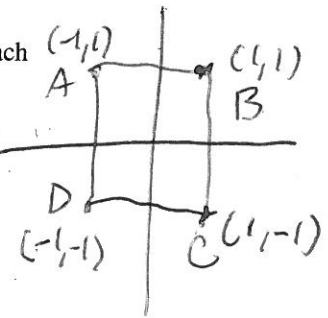
$-1 < 0 < 1$



Same Larger

8. List one possible set of coordinates of the vertices of quadrilateral  $ABCD$  for each description. (HSG-CO.A.3)

- a. A reflection in the  $y$ -axis maps quadrilateral  $ABCD$  onto itself.
- b. A reflection in the  $x$ -axis maps quadrilateral  $ABCD$  onto itself.
- c. A rotation of  $90^\circ$  about the origin maps quadrilateral  $ABCD$  onto itself.
- d. A rotation of  $180^\circ$  about the origin maps quadrilateral  $ABCD$  onto itself.



works for all