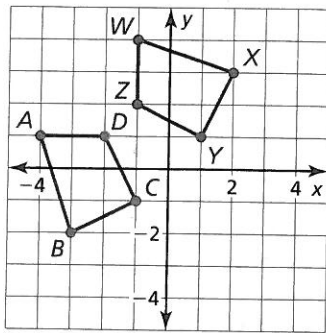
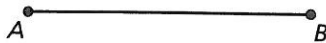


4. Graph the directed line segment ST with endpoints $S(-3, -2)$ and $T(4, 5)$. Then find the coordinates of point P along the directed line segment ST so that the ratio of SP to PT is 3 to 4. (HSG-GPE.B.6)
5. The graph shows quadrilateral $WXYZ$ and quadrilateral $ABCD$. (HSG-CO.B.6)



- a. Write a composition of transformations that maps quadrilateral $WXYZ$ to quadrilateral $ABCD$.
- b. Are the quadrilaterals congruent? Explain your reasoning.
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) $y = 3x + 21$
- (B) $y = -\frac{1}{3}x - 5$
- (C) $y = 3x - 15$
- (D) $y = -\frac{1}{3}x + 1$
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)



$\frac{1}{3}$

$\frac{1}{2}$

$\frac{3}{4}$

1

$\frac{3}{2}$

2

3

$\frac{7}{2}$

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° about the origin maps quadrilateral $ABCD$ onto itself.
- d. A rotation of 180° about the origin maps quadrilateral $ABCD$ onto itself.