**9-2 Practice**

***Translations***

**Graph each figure and its image along the given vector.**

 **1.** △*JKL* with vertices *J***(**–4, –4), **2.** quadrilateral *LMNP* with vertices *L*(4, 2),

 *K*(–2, –1), and *L*(2, –4); $\left〈2, 5 \right〉$*M*(4, –1), *N*(0, –1), and *P*(1, 4); $\left〈-4, -3\right〉$



 **3.** quadrilateral *TUWX* with vertices **4.** pentagon *DEFGH* with vertices *D*(–1, –2),

 *T*(–1, 1), *U*(4, 2), *W*(1, 5), and *X*(–1, 3); *E*(2, –1), *F*(5, –2), *G*(4, –4), and *H*(1, –4);

 〈–2, –4〉 〈–1, 5〉

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**ANIMATION Find the translation that moves
the figure on the coordinate plane.**

 **5.** figure 1 → figure 2

 **6.** figure 2 → figure 3

 **7.** figure 3 → figure 4

 **8.** quadrilateral *TUVW* with vertices *T*(–3, –8), *U*(–6, 3), *V*(0, 3), and *W*(3, 0); 〈4, 5〉

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 **9.** △*QRS* with vertices *Q*(2, 5), *R*(7, 1), and *S*(–1, 2); 〈–1, –2〉

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 **10.** parallelogram *ABCD* with vertices *A*(1, 6), *B*(4, 5), *C*(1, *–*1), and *D*(–2, 0); 〈3, –2〉

