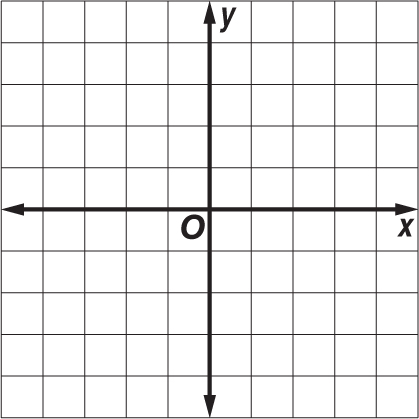
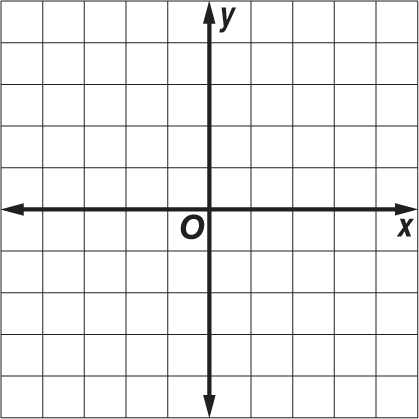
**9-2 Practice**

***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),

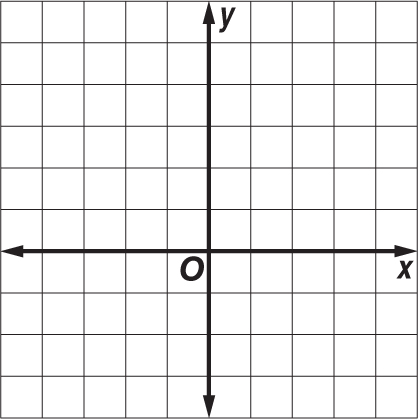
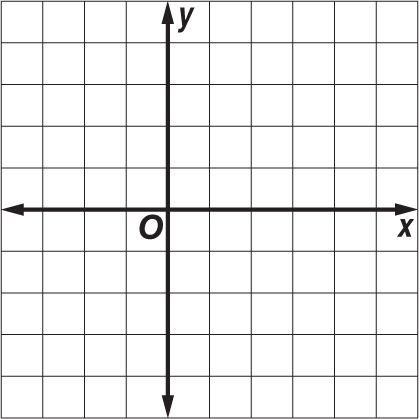
*K*(–2, –1), and *L*(2, –4); *M*(4, –1), *N*(0, –1), and *P*(1, 4);

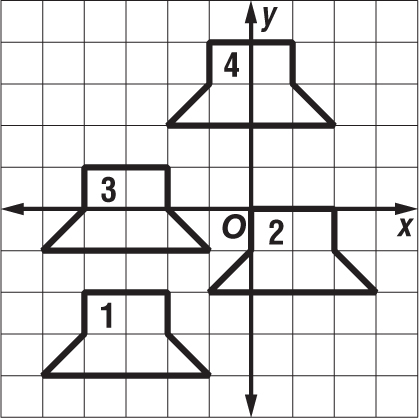


**3.** quadrilateral *TUWX* with vertices **4.** pentagon *DEFGH* with vertices *D*(–1, –2),

*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〉

****

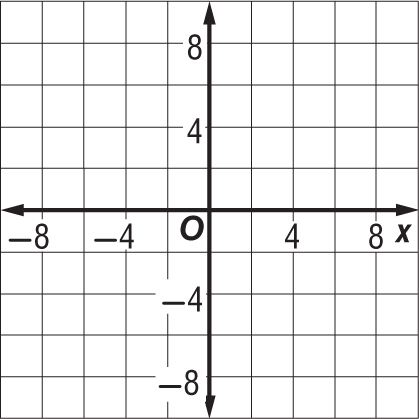
**ANIMATION Find the translation that moves   
the figure on the coordinate plane.**

**5.** figure 1 → figure 2

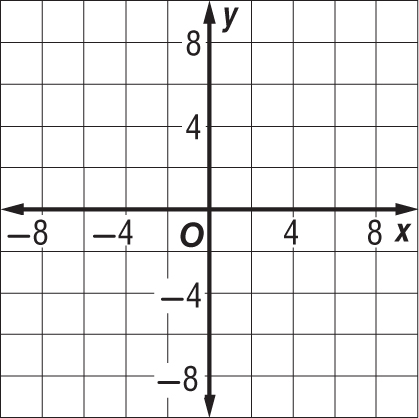
**6.** figure 2 → figure 3

**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〉

****

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

****

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

