**9-3 Skills Practice**

***Rotations***

**Graph each figure and its image after the specified rotation about the origin.**

 **1.** △*STU* has vertices *S*(2, –1), *T*(5, 1) and **2.** △*DE*F has vertices *D*(–4, 3), *E*(1, 2), and

 *U*(3, 3); 90° *F*(–3, –3); 180°

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**3.** quadrilateral *WXYZ* has vertices **4.** trapezoid *ABCD* has vertices *A*(5, 0),

 *W*(–1, 5), *X*(0, 4), *Y*(–2, 1) and *B*(3, –4), *C*(3, –4) and *D*(0, 0); 270°

 *Z*(–4, 3); 180°



**5.** trapezoid *FGHI* has vertices *F*(4, 4), **6.** △*LMN* has vertices *L*(–1, –1),

* G*(4, 2), *H*(3, 2), and *I*(-1, 1); 90° *M*(0, –4), and *N*(–4, –2); 90°

 **7.** △*ABC* has vertices *A*(–3, 5), *B*(0, 2), **8.** parallelogram *PQRS* has vertices *P*(4, 7),

 and *C*(–5, 1); 180° *Q*(6, 6), *R*(3, –2), and *S*(1, –1); 270°

