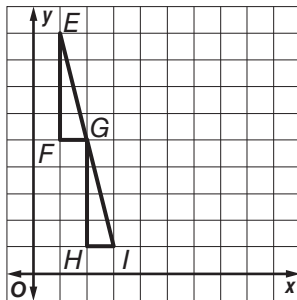


# Lesson 6 Homework Practice

## Slope and Similar Triangles

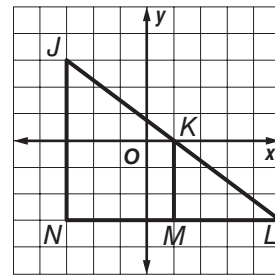
Graph each pair of similar triangles. Then write a proportion comparing the rise to the run for each of the similar slope triangles and find the numeric value.

1.  $\triangle EFG$  with vertices  $E(1,9)$ ,  $F(1,5)$ , and  $G(2,5)$ ;  $\triangle GHI$  with vertices  $G(2,5)$ ,  $H(2,1)$ , and  $I(3,1)$



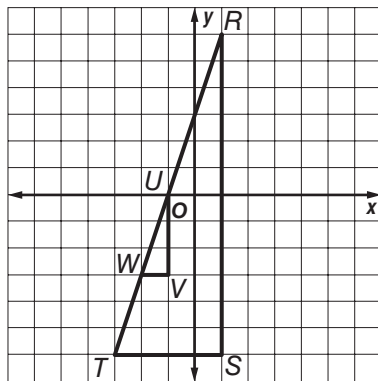
$$\frac{EF}{FG} = \frac{GH}{HI}, \text{ or } -\frac{4}{1}$$

2.  $\triangle JNL$  with vertices  $J(-3,3)$ ,  $N(-3,-3)$ , and  $L(5,-3)$ ;  $\triangle KML$  with vertices  $K(1,0)$ ,  $M(1,-3)$ , and  $L(5,-3)$



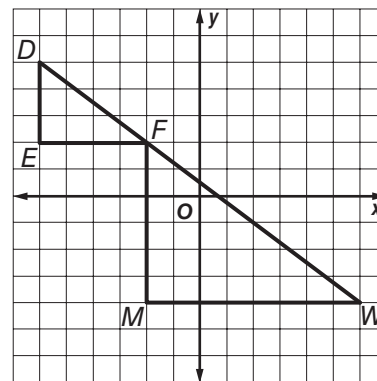
$$\frac{JN}{NL} = \frac{KM}{ML}, \text{ or } -\frac{3}{4}$$

3.  $\triangle RST$  with vertices  $R(1,6)$ ,  $S(1,-6)$ , and  $T(-3,-6)$ ;  $\triangle UVW$  with vertices  $U(-1,0)$ ,  $V(-1,-3)$ , and  $W(-2,-3)$



$$\frac{RS}{ST} = \frac{UV}{VW}, \text{ or } \frac{3}{1}$$

4.  $\triangle DEF$  with vertices  $D(-6,5)$ ,  $E(-6,2)$ , and  $F(-2,2)$ ;  $\triangle FMW$  with vertices  $F(-2,2)$ ,  $M(-2,-4)$ , and  $W(6,-4)$



$$\frac{DE}{EF} = \frac{FM}{MW}, \text{ or } -\frac{3}{4}$$