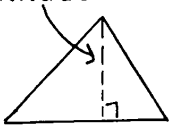
Analytic Geometry

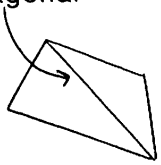
Glossary of Terms

altitude

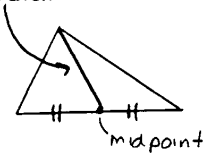


diagonal

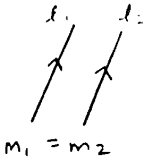
eg



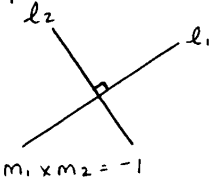
median



parallel lines

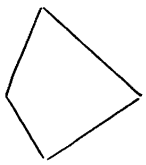


perpendicular lines

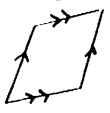


quadrilateral

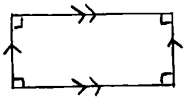
eg



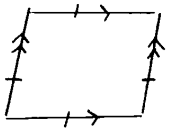
parallelogram



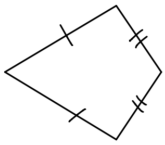
rectangle



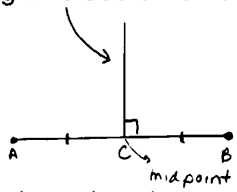
rhombus



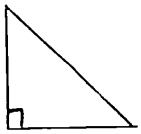
kite



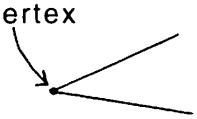
right bisector of a line segment



right triangle



vertex



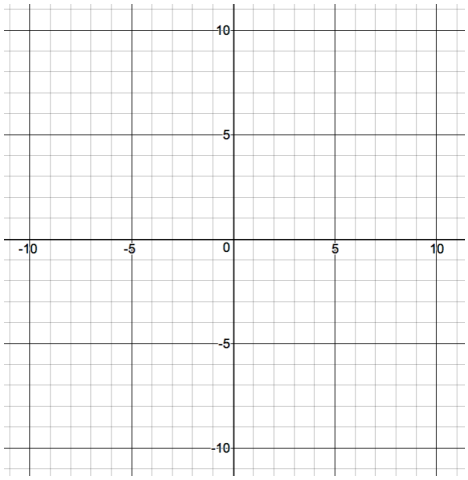
Exercises

1. Line r is parallel to line s. Line s has a slope of $\frac{2}{3}$. What is the slope of line r?

2. Line a is perpendicular to line b.

   Line b has a slope of $\frac{1}{2}$ passing through $(0,\ 5)$.

   What is the slope of line a?



3. What is the equation of a line p that is perpendicular to a line q with equation $y = \frac{2}{3}x - 4$? Line p passes through the point $(6,\ -4)$.
   NOTE: Write the equation in *slope-intercept* form (that is, in the form: $y = mx + b$).