Coordinate Geometry Worksheets

1. Use the coordinate plane below to complete the following tasks.

   a. Line p represents the rule *x and y are equal.*

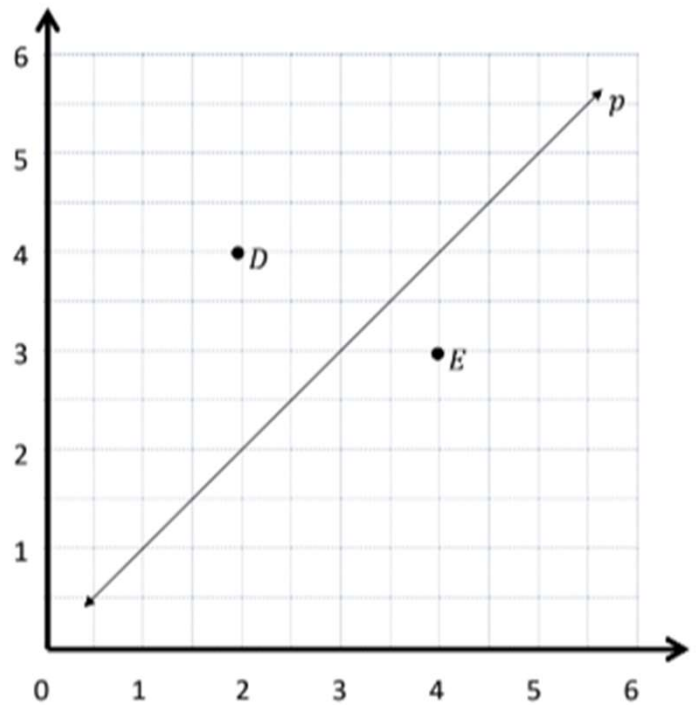   b. Construct a line, d, that is parallel to line p and contains point D.

   c. Name 3 coordinate pairs on line d.

   d. Identify a rule to describe line d.

   e. Construct a line, e, that is parallel to line p and contains point E.

   f. Name 3 points on line e.

   g. Identify a rule to describe line e.

   h. Compare and contrast lines d and e in terms of their relationship to line p.

Coordinate Geometry Worksheets

1. Use the coordinate plane below to complete the following tasks.

   a. Line *p* represents the rule, *x and y are equal.*

   b. Construct a line, *d*, that is parallel to line *p* and contains point *D*.

   c. Name 3 coordinates pairs on line *d*.

   $$\left(1\tfrac{1}{2}, 3\tfrac{1}{2}\right), \left(2\tfrac{1}{2}, 4\tfrac{1}{2}\right), (3,5)$$
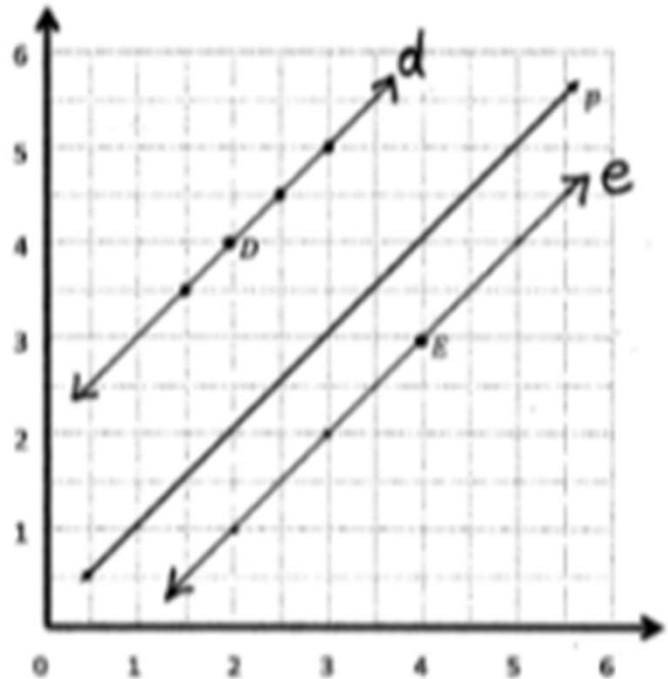
   d. Identify a rule to describe line *d*.

   Y is 2 more than X.

   e. Construct a line, *e*, that is parallel to line *p* and contains point *E*.

   f. Name 3 points on line *e*.

   $$(2,1), (3,2), (5,4)$$

   g. Identify a rule to describe line *e*.

   Y is 1 less than X.

   h. Compare and contrast lines *d* and *e* in terms of their relationship to line *p*.

   Line d has y-coordinates that are 3 greater than line e's. Otherwise, they are both parallel to line p.