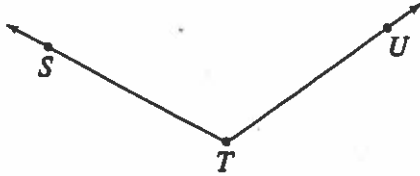


Practice 7-8

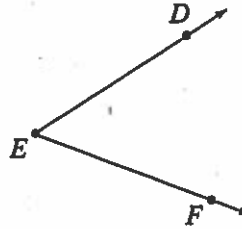
Constructions

Use a compass and straightedge to make each construction.

1. Construct $\angle ABC$ so that it is congruent to the given $\angle STU$.



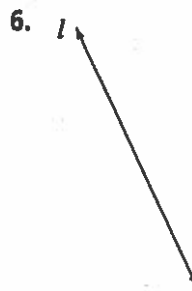
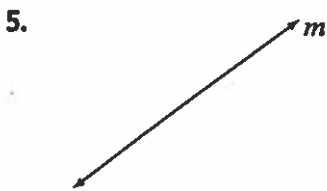
2. Construct $\angle PQR$ so that it is congruent to the given $\angle DEF$.



3. Draw an obtuse $\angle G$. Construct an angle congruent to $\angle G$.

4. Use a protractor to draw $\angle XYZ$ with $m\angle XYZ = 36^\circ$. Then use a compass and straightedge to construct $\angle RST$ with the same measure.

Construct a line parallel to the given line.



7. Draw a vertical line n . Then construct a line p parallel to n .

8. Draw a horizontal line a . Then construct a line b parallel to a .

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Puzzle 7-8

Constructions

You need to construct a line f that is parallel to line d . Put the steps below in the correct order for constructing parallel lines. Step 1 is done for you. Fill in the blanks at the bottom with the corresponding letters to check your order.



- G. _____ Put the compass tip at A . Draw an arc that intersects the sides of $\angle 1$. Label the points of intersection X and Y .
- H. _____ Keep the compass open the same width. Put the compass on point B . Draw an arc that intersects e . Label the point of intersection Z .
- W. _____ Put the tip at Z . Draw an arc to determine point C and label it.
- Y. _____ \overleftrightarrow{AX} is parallel to \overleftrightarrow{BC} . Label the new line f . Good job!
- R. 1 Draw line e that intersects line d at A . Label the angle formed $\angle 1$.
- I. _____ Choose a point on line e and label it B .
- A. _____ Draw a line between B and C to form $\angle 2$.
- T. _____ Adjust the compass so that the tip is at Y and the pencil is at X . Use this compass opening.

_____ !
 1 2 3 4 5 6 7 8