

Quadrilaterals, Triangles and Midpoints

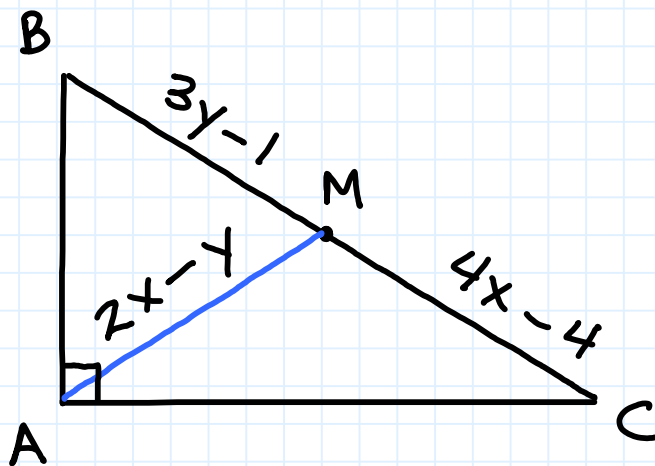


Overview of problems



Example Set: A

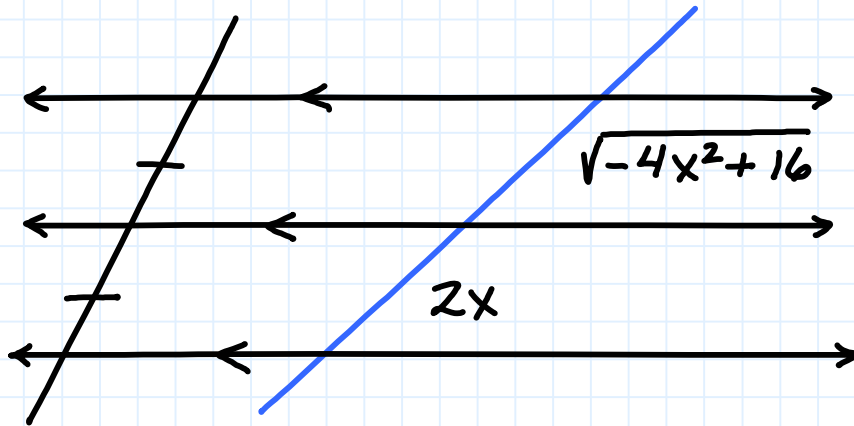
Given M is the midpoint of BC , find the values of the variables



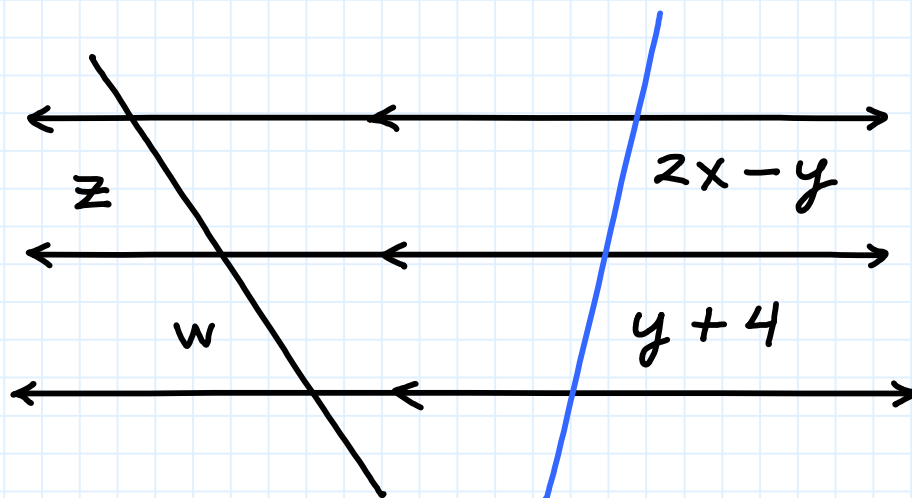


Example Set: B

Solve for the variable



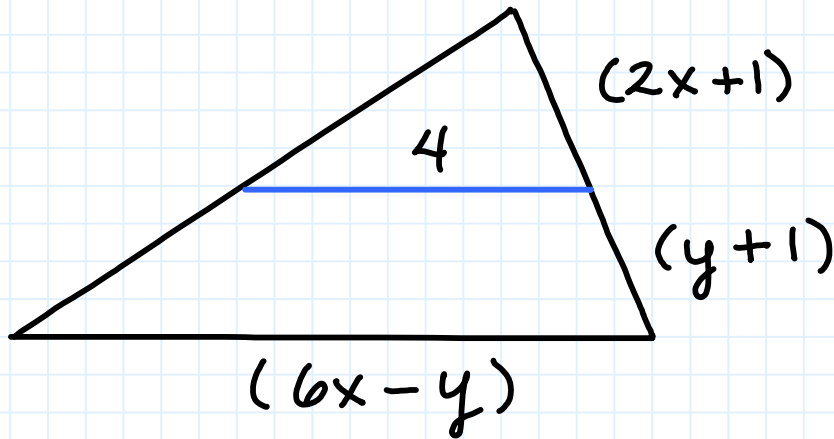
Find values of x and y such that z would equal w .





Example Set: C

The segment joins the midpoint of two sides of the triangle. Find the values of the variables.



Quadrilaterals, Triangles and Midpoints

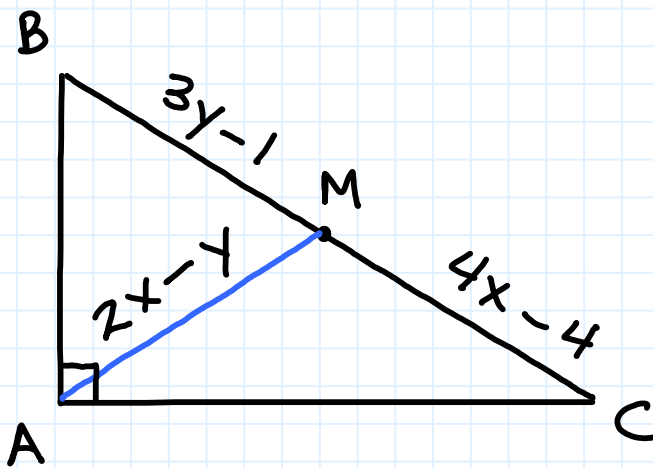


Overview of problems- KEY



Example Set: A

Given M is the midpoint of BC , find the values of the variables



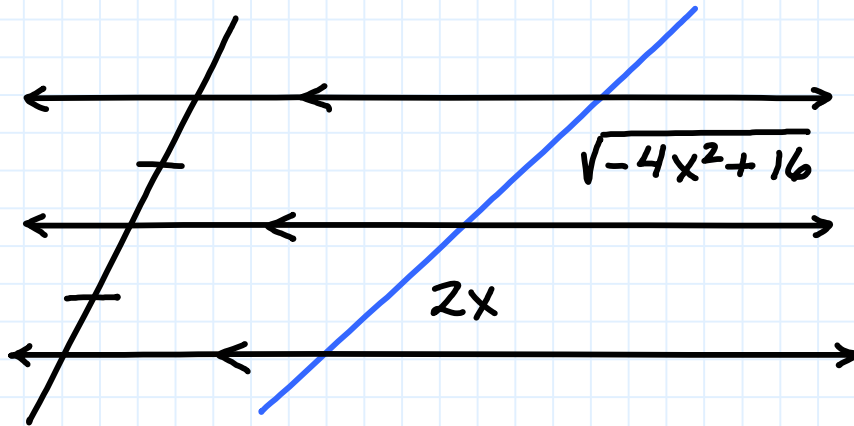
$$x = \frac{3}{2}$$

$$y = 1$$



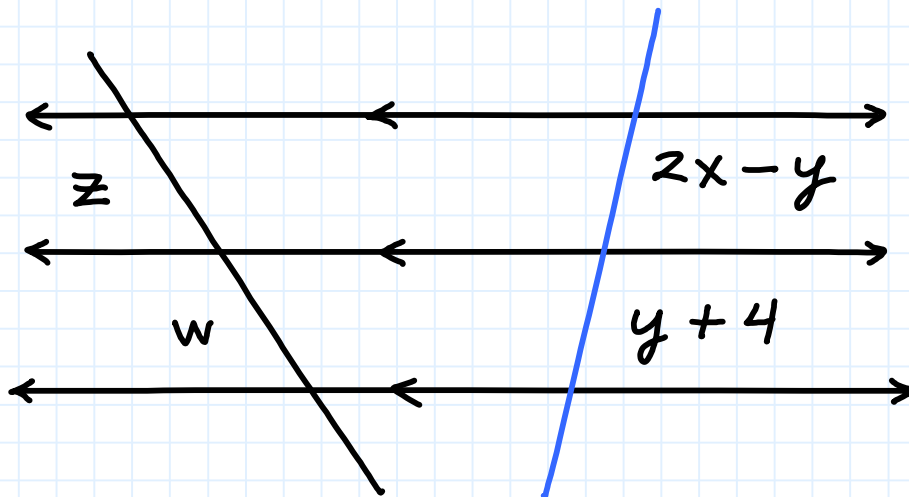
Example Set: B

Solve for the variable



$$x = \pm\sqrt{2}$$

Find values of x and y such that z would equal w .



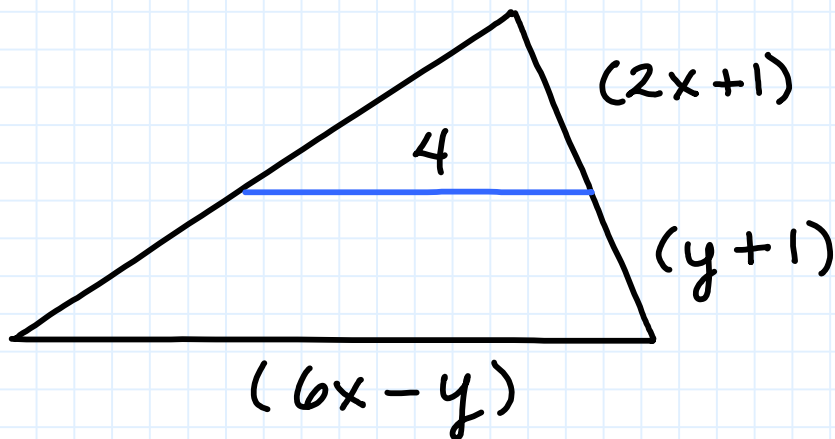
$$x = 3$$

$$y = 1$$



Example Set: C

The segment joins the midpoint of two sides of the triangle. Find the values of the variables.



$$x = 2$$

$$y = 4$$