Name: _____ Date: _____

10.2 Warm Up

1. Find the midpoint of each line segment.

Midpoint means middle or halfway.

a) C D

b) K J

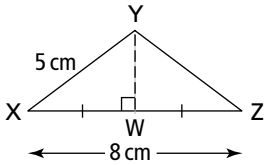
2. Draw a perpendicular bisector of each line segment.

Find the midpoint and draw a perpendicular line.

a) L M

b) F E

3. Find the height of the isosceles triangle.



XW = _____ cm

$a^2 + b^2 = c^2$

$XW^2 + WY^2 = XY^2$

$\square^2 + WY^2 = \mathbf{5^2}$

_____ + WY^2 = _____

_____ – _____ + WY^2 = _____ – _____

WY^2 = _____

$WY = \sqrt{\square}$

WY = _____

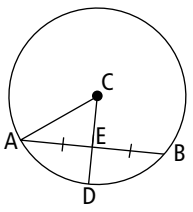
The height of the triangle is _____ cm.

4. Calculate the length of the line segment using the midpoints.

a) A C B

If AC = 10 cm, then AB = _____ cm.

b)



If AB = 9 cm, then AE = _____ cm.