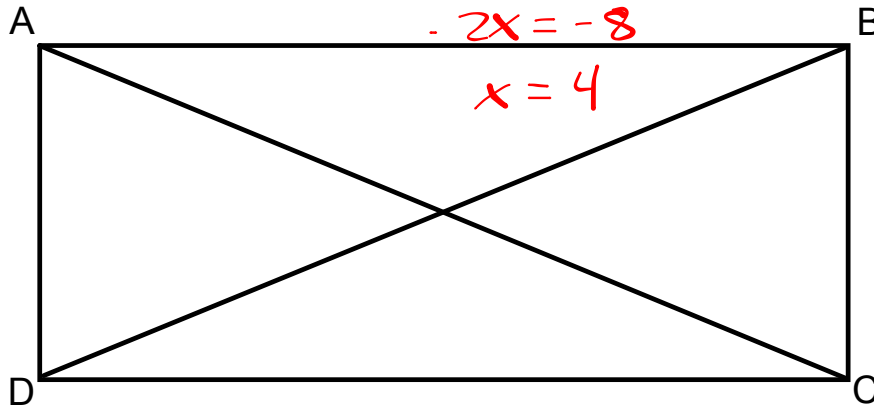


Warm-up 1/6/17
Find the value of x.

$$\begin{aligned}
 3x - 8 &= 5x - 16 \\
 -5x &\quad -5x \\
 -2x - 8 &= -16 \\
 -2x &= -8 \\
 x &= 4
 \end{aligned}$$

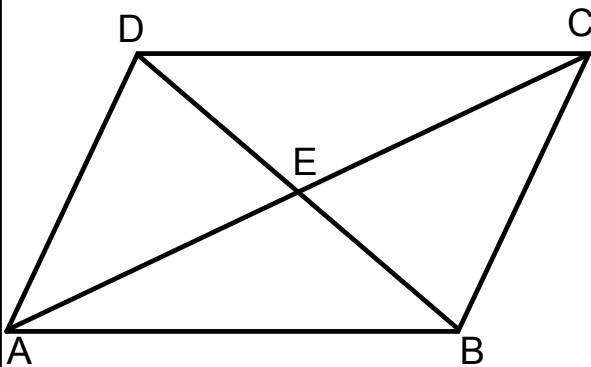


$$AC = 3x - 8$$

$$DB = 5x - 16$$

Pg. 496-499

Parallelogram



~~$m\angle ABC = m\angle BCD = m\angle CDA = m\angle DAB = 90^\circ$~~

$$\angle ADC \cong \angle ABC, \angle DAB \cong \angle DCB$$

$$\overline{AB} \parallel \overline{DC}, \overline{AD} \parallel \overline{BC}$$

$$\overline{AB} \cong \overline{DC}, \overline{AD} \cong \overline{BC}$$

$$\overline{AE} \cong \overline{EC}, \overline{DE} \cong \overline{EB}$$

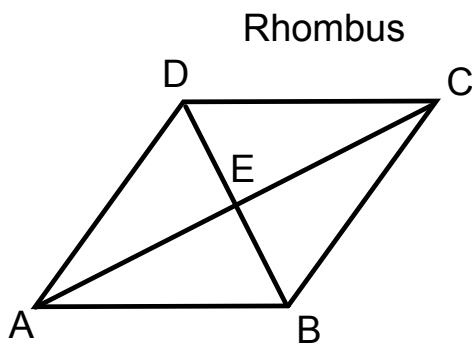
~~$\overline{AC} \cong \overline{DB}$~~

~~$\angle DAC = \angle BAC, \angle BCA = \angle DCA$~~

~~$\angle ADB = \angle CDB, \angle ABD = \angle CBD$~~

~~$m\angle AEB = m\angle BEC = m\angle CED = m\angle DEA = 90^\circ$~~

Pg. 500-502



~~$m\angle ABC = m\angle BCD = m\angle CDA = m\angle DAB = 90^\circ$~~

$\angle ADC \cong \angle ABC, \angle DAB \cong \angle DCB$

$\overline{AB} \parallel \overline{DC}, \overline{AD} \parallel \overline{BC}$

$\overline{AB} \cong \overline{DC} \cong \overline{AD} \cong \overline{BC}$

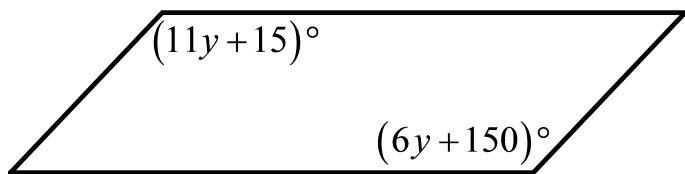
$\overline{AE} \cong \overline{EC}, \overline{DE} \cong \overline{EB}$

~~$\overline{AC} \cong \overline{DB}$~~

$\angle DAC \cong \angle BAC, \angle BCA \cong \angle DCA$

$\angle ADB \cong \angle CDB, \angle ABD \cong \angle CBD$

$m\angle AEB = m\angle BEC = m\angle CED = m\angle DEA = 90^\circ$



$6z + 18 = 90$
 $6z = 72$
 $z = 12$

$11y + 15 = 6y + 150$
 $-6y \quad -6y$
 $5y + 15 = 150$
 $5y = 135$
 $y = 27$

