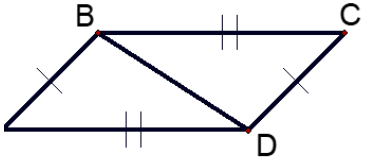
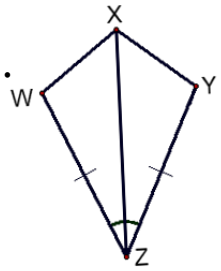
Warm Up Problems

1) Give a reason that the triangles are congruent.

a. 

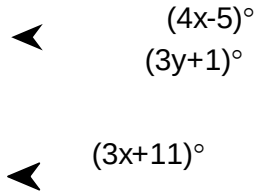
b. 

2) a. Find the slope of the line 2x – 3y = 9.

b. Find the equation of the line perpendicular to 2x – 3y = 9 that passes through the point (4,-2).

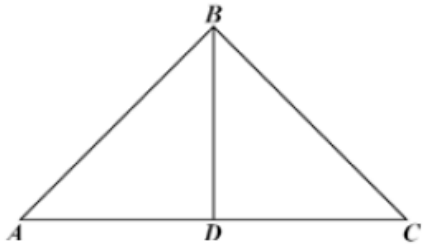
3) If $\Delta ABR \cong \Delta LGW$, complete the following congruence statements: a. $\overline{AB} \cong$ _____ b. $\angle G \cong$ _____

4) Find x and y.



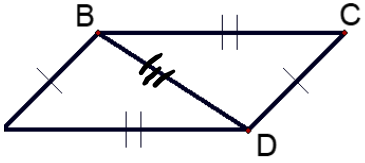
5) Complete the proof:

Given: $\overline{BD}$ bisects $\angle ABC$, $\overline{BA} \cong \overline{BC}$
Prove: $\overline{DA} \cong \overline{DC}$

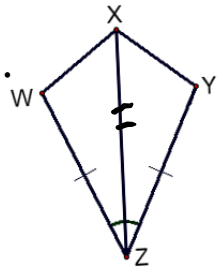


Warm Up Problems

1) Give a reason that the triangles are congruent.

a. 

SSS

b. 

SAS

2) a. Find the slope of the line $2x - 3y = 9$. $\frac{2}{3}$

b. Find the equation of the line perpendicular to $2x - 3y = 9$ that passes through the point $(4,-2)$.

$2x - 3y = 9$

$-2x \quad -2x$

$\frac{-3y}{-3} = \frac{-2x}{-3} + \frac{9}{-3}$

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

x y

slope $= -\frac{3}{2}$

$y = mx + b$

$y - y_1 = m(x - x_1)$

$y - (-2) = -\frac{3}{2}(x - 4)$

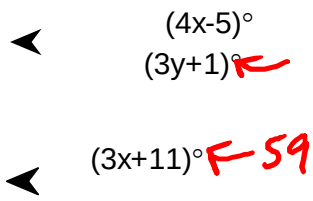
Warm Up Problems

3) If $\Delta ABR \cong \Delta LGW$, complete the following congruence statements:

a. $\overline{AB} \cong$ $\overline{LG}$

b. $\angle G \cong$ $\angle B$

4) Find x and y.



Same Side Int.

$3y+1+59=180$

$3y+60=180$

$-60 \quad -60$

$\frac{3y}{3} = \frac{120}{3}$

$y = 40$

Corresp.

$4x-5=3x+11$

$-3x \quad -3x$

$x-5=11$

$+5 \quad +5$

$x = 16$

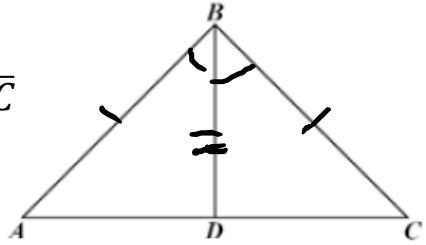
$3(16)+11=59$

Warm Up Problems

5) Complete the proof:

Given: $\overline{BD}$ bisects $\angle ABC$, $\overline{BA} \cong \overline{BC}$

Prove: $\overline{DA} \cong \overline{DC}$



Statements	Reasons
1) $\overline{BD}$ bis. $\angle ABC$, $\overline{BA} \cong \overline{BC}$	1) Given
2) $\angle ABD \cong \angle CBD$	2) Def bis.
3) $\overline{BD} \cong \overline{BD}$	3) Reflex.
4) $\triangle ABD \cong \triangle CBD$	4) SAS
5) $\overline{DA} \cong \overline{DC}$	5) CPCTC

Things to Do Today

- Unit 2 Activity
- Review Sheet

} on rosenmath.com

- Do/Redo homework from 11/1 and 11/3
- Exact Path (80 hours due by 11/17 )

Unit 2 Test on Tuesday