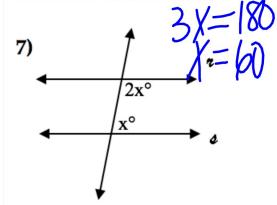
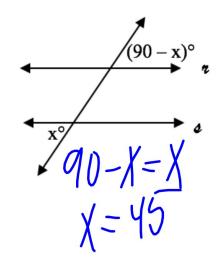


Find the value of x that makes $r \parallel s$.

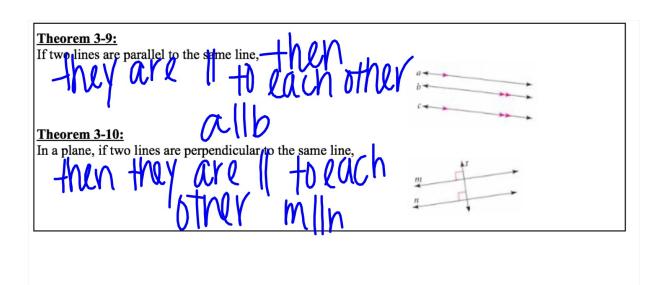




8)

$$\begin{array}{c}
 & \xrightarrow{(2x+20)^{\circ}} \\
 & \xrightarrow{3x^{\circ}} \\
 & 2 \times 120 = 3 \times \\
 & 2 \times 0 = 1 \times \\
 & 2 \times 120 = 3 \times \\
 & 3 \times 120$$

Geometry	3-3: Parallel and Perpendicular Lines	
Objective: To relate parallel and perpendicular lines		
There are two ways to	draw parallel lines. You can draw them parallel lines. You can draw them parallel lines. You can draw them given line.	
Symbol for parallel:	Symbol for perpendicular:	

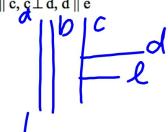


Example 1:

a and e are

How are a and e related? (Hint: draw a picture)

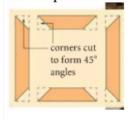
A.) $a \| b, b \| c, c \perp d, d \| e$



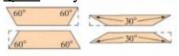
B.) $a \perp b$ $b \perp c$, $c \perp d$, $d \perp e$

a and e are

Example 2: To make a frame for a painting, a miter box and backsaw are used to cut the framing at 45° angles. Explain why cutting the framing at this angle ensures that opposite sides of the frame will be parallel.



TWO adj 45° = 90° opp. Stalls are to same sides of the frame opposite sides Thus, the opp side arell b/c two lines I to third line arell. QC 2: Can you assemble the framing below into a frame with opposite sides parallel? Explain.



Theorem 3-11:

In a plane, if a line is perpendicular to one of two parallel lines,

then it 15 I to the other nIm.

Example 3: Use Theorem 3-11 to show each of the following

A. Given: In a plane, a \(\) b, b \(\) c, and c \(\) d.

Prove: a \(\) d \(\) d \(\) C \(\)

Hwk #16 - due tomorrow

Sect. 3-3

Pages: 143 - 144

Problems: 1, 3, 6-10, 14-16

IXL #8 - D.6 due Friday at 4pm!