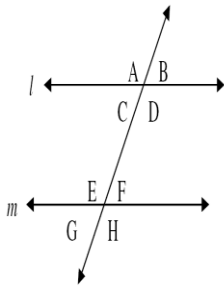
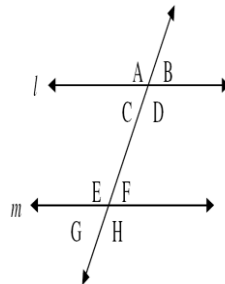


3-3A: Angles with Parallel Line Systems
“I WILL ...
...solve systems using parallel lines.”

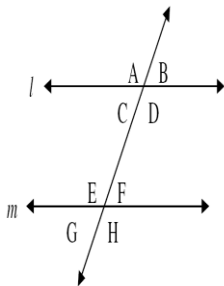
Ex 1: Find the value of x in each question given that lines l and m are parallel. Check your answers by finding the measure of each angle given that $m\angle C = 3x - 10$ and $m\angle F = x + 70$



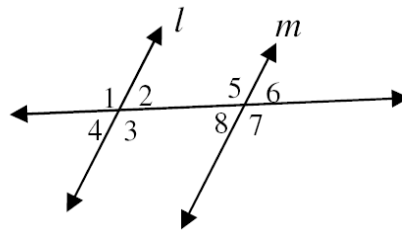
Ex 2: Find the value of x in each question given that lines l and m are parallel. Check your answers by finding the measure of each angle given that $m\angle B = 2(x + 40)$ and $m\angle G = 5x + 44$

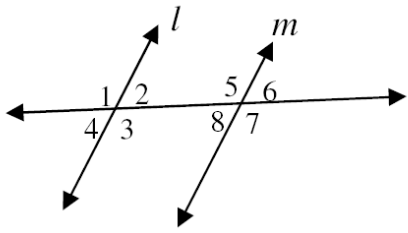
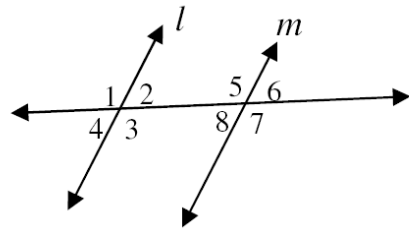
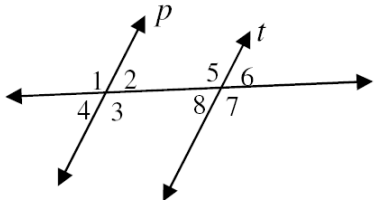
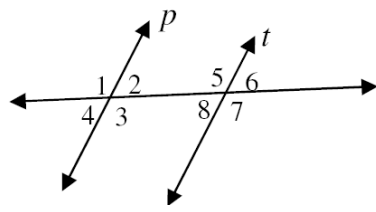
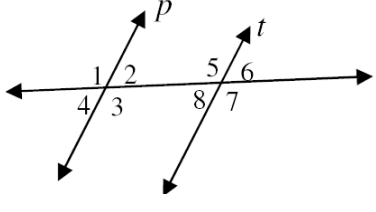


Your Turn: Find the value of x in each question given that lines l and m are parallel. Check your answers by finding the measure of each angle given that $m\angle D = x + 27$ and $m\angle F = 2x - 39$



Ex 3: Given $l \parallel m$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 3 = x^2 + 112$ and $m\angle 8 = 16x + 131$



<p>Ex 4: Given $l \parallel m$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 3 = x^2 - 2x$ and $m\angle 6 = 3x + 108$</p> 	<p>Your Turn: Given $l \parallel m$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 1 = x^2 - 7x$ and $m\angle 7 = -x + 7$</p> 
<p>Ex 5: Given $p \parallel t$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 1 = 12x - 4y$, $m\angle 8 = x - 4y$, and $m\angle 5 = 15x + 8y$</p> 	<p>Ex 6: Given $p \parallel t$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 2 = 8b + a$, $m\angle 5 = 7a + 25b$, and $m\angle 4 = 3a + 5b$</p> 
<p>Your Turn: Given $p \parallel t$, find the value (s) of x and each angle. Check for extraneous solutions. Given: $m\angle 3 = 14s - 3t$, $m\angle 7 = 9s + 12t$, and $m\angle 4 = 5s + 6t$</p> 	<p>Ex 7: Given $l \parallel m$. Prove: $\angle 1$ & $\angle 2$ are supplementary</p> 