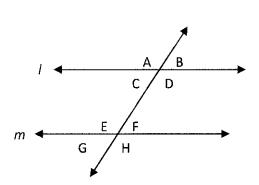
Parallel Lines With Algebra

Remember - drawings are not necessarily drawn accurately!

1-3: Find the value of x in each question given that lines I and m are parallel. Check your answers by finding the measure of each angle.



1)
$$m \angle C = 3x - 10;$$
$$m \angle F = x + 70$$

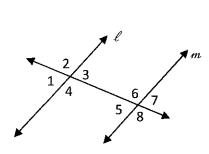
2)
$$m \angle D = x + 27;$$

 $m \angle F = 2x - 39$

3)
$$m \angle B = 2(x+40);$$

 $m \angle G = 5x+44$

4-6: Find the value of x in each question given that lines I and m are parallel. Check your answers by finding the measure of each angle.



4)
$$m \angle 3 = 2x + 16;$$

 $m \angle 5 = 7x - 4$

5)
$$m \angle 4 = 8x - 80;$$

 $m \angle 5 = -2x + 116$

6)
$$m \angle 2 = 3x + 19;$$

 $m \angle 6 = 2(x + 10);$

7) Given $l \mid |m| \mid n$ and $s \mid |t$, and $m \angle 1 = 143^{\circ}$, find

$$m \angle 2 = \underline{\qquad} m \angle 11 = \underline{\qquad} m \angle 20 = \underline{\qquad}$$

$$m \angle 3 = \underline{\qquad} m \angle 12 = \underline{\qquad} m \angle 21 = \underline{\qquad}$$

$$m \measuredangle 4 = \underline{\qquad} m \measuredangle 13 = \underline{\qquad} m \measuredangle 22 = \underline{\qquad}$$

$$m \measuredangle 5 = \underline{\qquad} m \measuredangle 14 = \underline{\qquad} m \measuredangle 23 = \underline{\qquad}$$

$$m \measuredangle 6 = \underline{\qquad} m \measuredangle 15 = \underline{\qquad} m \measuredangle 24 = \underline{\qquad}$$

$$m \angle 7 = \underline{\qquad} m \angle 16 = \underline{\qquad}$$

