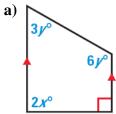
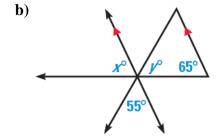
Section 3.2 – More Parallel Lines and Transversal Problems

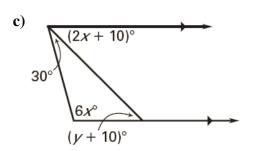
Ex 1:

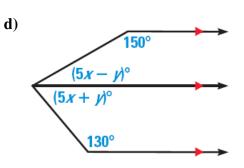
- a) $\angle 1$ and $\angle 2$ are Alternate Interior angles. If $m\angle 1 = 2x$ and $m\angle 2 = 30 + x$, find the the value of x.
- **b)** $\angle 6$ and $\angle 7$ are consecutive interior angles. If $m\angle 6 = 3x 12$ and $m\angle 7 = 5x + 32$, find the measure of the smaller angle.

Ex 2: Find the value of the variables.

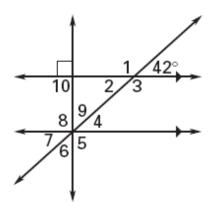






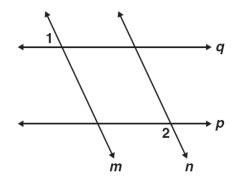


Ex 3: Find the measure of the numbered angles.

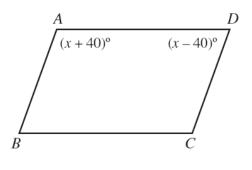


Ex 4:

a) Given: $p \parallel q$; $m \parallel n$; $m \angle 1 = 75^{\circ}$



b) In the figure below, $\overline{AB} \parallel \overline{CD}$.



What is $m \angle 2$?

- **A** 15°
- **B** 75°
- **C** 90°
- **D** 105°

What is the value of x?

- **A** 40
- **B** 50
- **C** 80
- **D** 90