

^{equations of}
Recall: Parallel Lines have the Same Slope!!

Write the equation of the line in Slope-Int. Form that is Parallel to $y=2x-3$ & it passes through $(3, -1)$

$y = mx + b$ $m = \text{slope}$
 $y\text{-int} = ?$

But... that is Not what I was given!
equation point on the line

$y = 2x - 3$ $(3, -1)$
the equation we are creating is parallel to the equation given
 $\therefore$ the Slopes are the Same at: $m = 2$

Really, I was given the Slope & a Pt. on the line
 $\therefore$ I can only use the Pt-Slope form.

$y - y_1 = m(x - x_1)$
 $y - (-1) = 2(x - 3)$
 $y + 1 = 2(x - 3)$ $\rightarrow$ Pt. Slope Form
 $y + 1 = 2x - 6$ But I want it in Slope-Int. Form.
 $\therefore$ Get "y" by itself
 $y = 2x - 7$

Check: use... $(3, -1)$
 $-1 \stackrel{?}{=} 2(3) - 7$
 $-1 \stackrel{?}{=} 6 - 7$
 $-1 = -1 \checkmark$

O.T.L.

① Write the Summary Box on
Pg 280 at the Bottom

② pg 281-282: 1-7(a), 14, 19, 24,
25, 35, 37, 39, 40, 41, 42

turned in 2-7-24