

Homework Hint Section 2.1

P 169 # 1-6 if it is not a polynomial
Remember to explain why.

P 169 # 7-12

write an equation for the linear
Function:

7) $f(-5) = -1$ and $f(2) = 4$

$\swarrow \quad \swarrow \quad \swarrow \quad \swarrow$

$x \quad y \quad x \quad y$

$(-5, -1) \quad (2, 4)$

$y = mx + b$ (in the question they said
Linear Function).

step 1:

Find the slope

$$\frac{y_2 - y_1}{x_2 - x_1}$$

$$\begin{matrix} x_1 & y_1 \\ (-5, & -1) \\ x_2 & y_2 \\ (2, & 4) \end{matrix}$$

$$\frac{4 - (-1)}{2 - (-5)} = \frac{5}{7}$$

step 2: Find the y-intercept (b)

$$y = mx + b$$

$$y = \frac{5}{7}x + b$$

substitute the coordinates of one of the points in
the equation and solve for b

$$4 = \frac{5}{7}(2) + b \rightarrow b = 4 - \frac{10}{7} = \frac{18}{7}$$

$$y = \frac{5}{7}x + \frac{18}{7}$$