

1. Take  $f$  to be the function that is given by

$$f(x) = \frac{x - 3}{(x - 3)(x + 5)}.$$

Determine the domain of  $f$ .

2. Create a linear function with a slope of  $m = -3$ .

3. Write the equation of the linear function whose slope is 2 and that passes through  $(4, -1)$ .

4. Give an example of a monomial with degree 4.