

## Exercise 10

For the following exercises, identify the function as a power function, a polynomial function, or neither.

$$f(x) = 2x(x + 2)(x - 1)^2$$

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### Solution

This is the factored form of a polynomial function.

$$f(x) = 2x^4 - 6x^2 + 4x$$

Notice the multiple power functions ( $2x^4$  and  $6x^2$  and  $4x$ ) strung together with one or more plus and/or minus signs.