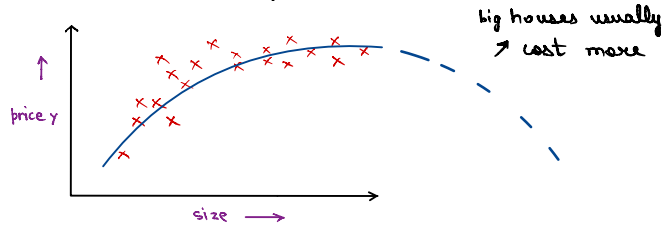
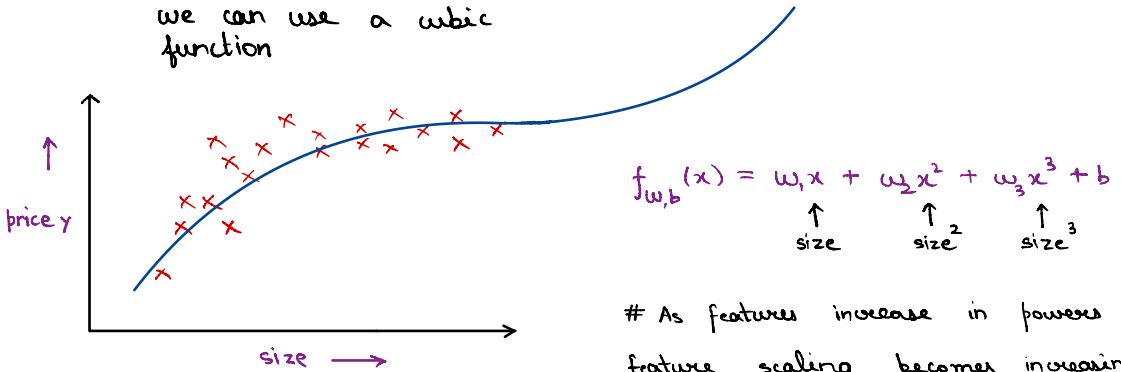


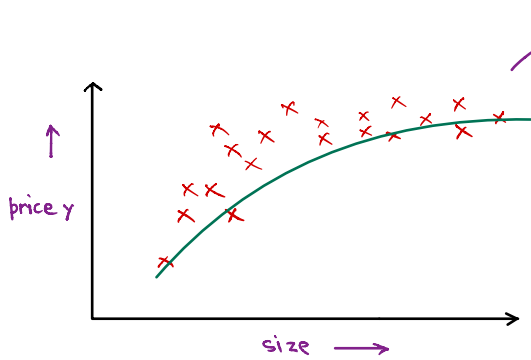
this model doesn't really make sense as a quadratic f^n eventually goes down.



we can use a cubic function



As features increase in powers feature scaling becomes increasingly important.



$$f_{w,b}(x) = w_1x + w_2\sqrt{x} + b$$

← Another choice is to take size root instead of square and cube. This is because square root function gets a bit less steep as x increases but it never completely flattens out and never goes back down.