

Identifying Linear, Quadratic, and Exponential Functions

Classify each function as linear, quadratic, or exponential.

① $f(x) = 5$

② $f(x) = 8^x$

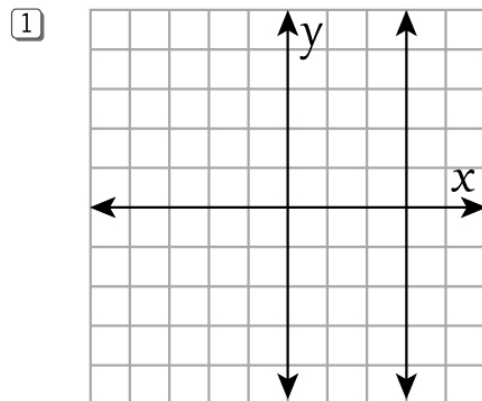
③ $f(x) = (x - 2)^2 + 7$

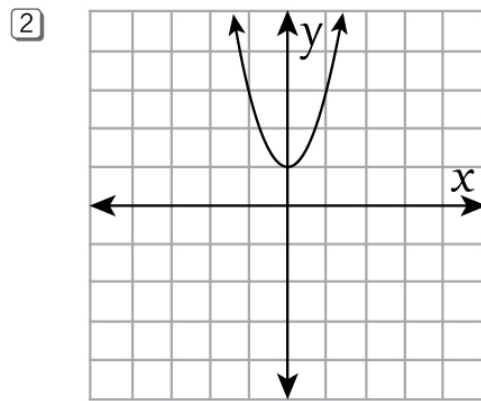
④ $f(x) = -\frac{3}{2}x - 3$

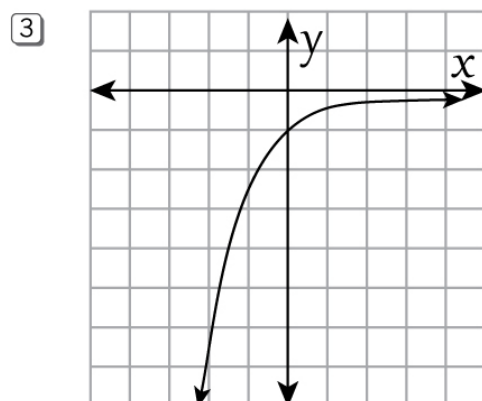
⑤ $f(x) = 4^x + 2$

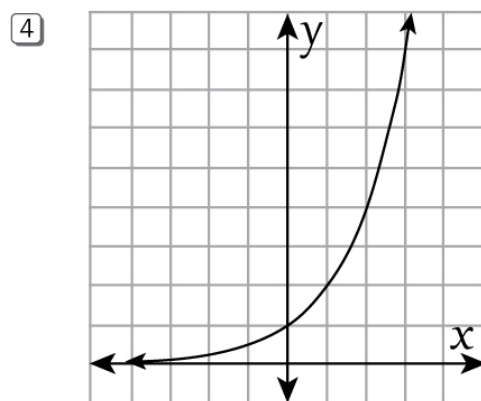
⑥ $f(x) = 6x^2 - 17x + 12$

Determine if the following graphs represent a linear, exponential, or quadratic function.









Identifying Linear, Quadratic, and Exponential Functions

Answers

① $f(x) = 5$

Linear function

② $f(x) = 8^x$

Exponential function

③ $f(x) = (x - 2)^2 + 7$

Quadratic function

④ $f(x) = -\frac{3}{2}x - 3$

Linear function

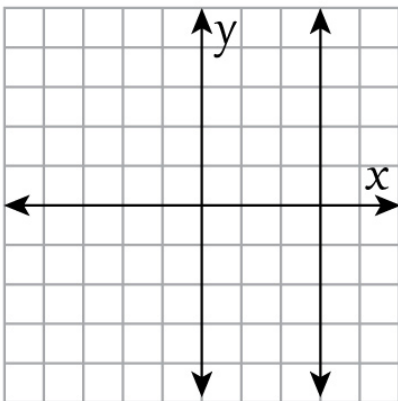
⑤ $f(x) = 4^x + 2$

Exponential function

⑥ $f(x) = 6x^2 - 17x + 12$

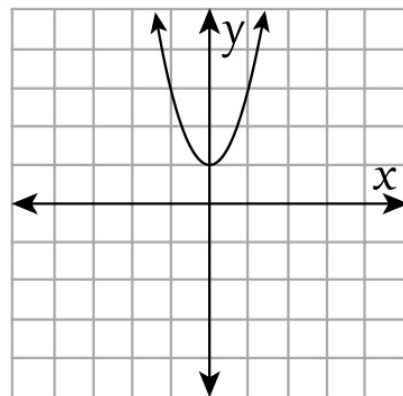
Quadratic function

①



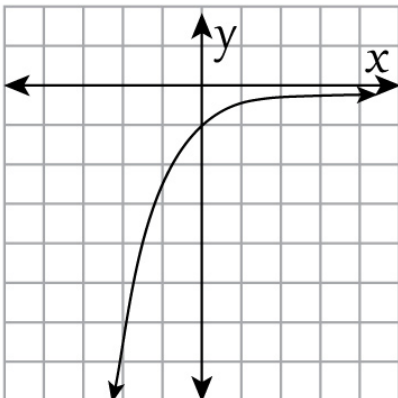
Linear function

②



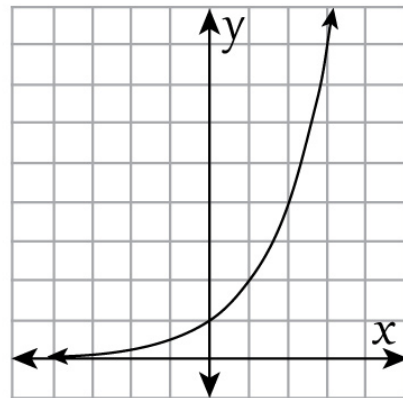
Quadratic function

③



Exponential function

④



Quadratic function