Families of Functions

Lesson Overview: Match the graph cards to the cards that give the corresponding equation and the type of function.

Directions: Working in pairs or groups, as directed by the teacher, complete the matching and record your answers below.
(No graphing calculator or computer may be used.)

GRAPH	EQUATION	TYPE OF FUNCTION
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		

FAMILY OF FUNCTIONS

Answer Sheet

GRAPH	EQUATION	TYPE OF FUNCTION
A	$Y = x^2 + 3$	Square (quadratic)
B	$Y = 100 (.8)^x$	Exponential
C	$Y = -2x - 3$	Linear
D	$Y = x^2$	Linear
E	$Y = 2/x$	Inverse (rational)
F	$Y = 4 + 2x$	Linear
G	$Y = 8 - \frac{1}{2}x$	Linear
H	$Y = 2^x - 2$	Exponential
I	$Y = 8\left(\frac{1}{2}\right)^x$	Exponential
J	$Y = 3x - 3$	Linear
K	$Y = x^2 - 3$	Square (quadratic)
L	$Y = x$	Linear