6  
In the xy-plane, the graph of which of the following equations is a line with a slope of 3?

A) \( y = \frac{1}{3} x \)  
B) \( y = x - 3 \)  
C) \( y = 3x + 2 \)  
D) \( y = 6x + 3 \)

7  
In the equation above, which of the following is a possible value of \( x + 1 \)?

A) \( 1 - \sqrt{2} \)  
B) \( \sqrt{2} \)  
C) 2  
D) 4
Questions 8-10 refer to the following information.

The glass pictured above can hold a maximum volume of 473 cubic centimeters, which is approximately 16 fluid ounces.

8. What is the value of \( k \), in centimeters?
   A) 2.52
   B) 7.67
   C) 7.79
   D) 10.11

9. Jenny has a pitcher that contains 1 gallon of water. How many times could Jenny completely fill the glass with 1 gallon of water? (1 gallon = 128 fluid ounces)
   A) 16
   B) 8
   C) 4
   D) 3

Water pours into the glass slowly and at a constant rate. Which of the following graphs best illustrates the height of the water level in the glass as it fills?

A)

B)

C)

D)