1.

$$y = x^2 - x - 12$$

The equation above represents a parabola in the xy-plane. Which of the following equivalent forms of the equation displays the x-intercepts of the parabola as constants or coefficients?

A) $y = (x - 1)^2 + x - 13$
B) $y = x(x - 1) - 12$
C) $y = (x - 4)(x + 3)$
D) $y - 3 = x^2 - 6x + 5$

2.

Sarah drives at different speeds while going on a road trip. The graph below shows her speed at different times during her road trip. On which intervals does Sarah's speed remain constant?
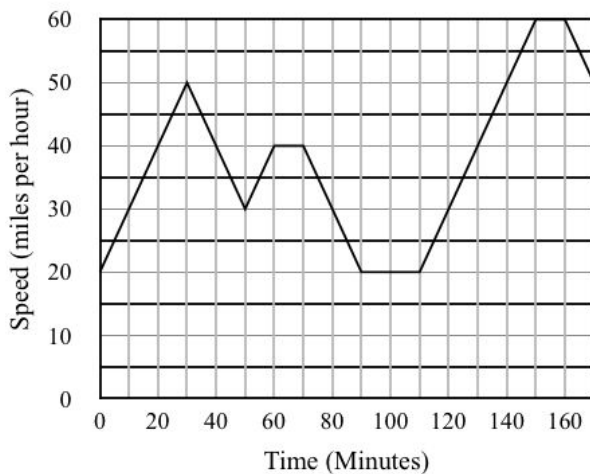
A) $(60,70) \cup (90,110) \cup (150,160)$
B) $(0,30) \cup (50,60) \cup (110,150)$
C) $(60,70) \cup (150,160)$
D) $(30,50) \cup (70,90) \cup (160,170)$

3.

Which of the following graphs best shows a
weak, positive, linear association between x and y?

A)

x

y

B)

x

y

C)

x

y

D)

x

y