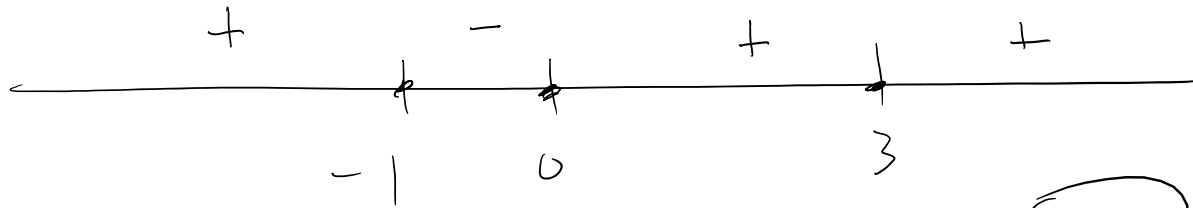


$$\textcircled{9} \quad f'(x) = x(x-3)^2(x+1)$$

f'



\textcircled{A}

(10)

$$\frac{x^2 - 7x + 10}{b(x-2)} = \frac{(x-2)(x-5)}{b(x-2)}$$

$$= \frac{x-5}{b} = b \quad \frac{-7}{b} = b \quad \rightarrow = b^2$$

(E)

$$\textcircled{a} \int_{-1}^3 f(t) dt = 10 - 1 = 9$$

$$\textcircled{b} g'(x) = f(x) \quad g \uparrow \text{ when } g' > 0$$

$$f > 0$$

$$(-5, -3) \text{ and } (-3, 2)$$

$$g''(x) = f'(x) \quad g \text{ is concave down when}$$

$$g'' < 0 \quad (f' < 0)$$

$$(-5, -3) \text{ and } (0, 4)$$

$$\text{so } (-5, -3) \text{ and } (0, 2)$$

$$\textcircled{c} h'(x) = \frac{5x g'(x) - g(x) \cdot 5}{25x^2}$$

$$= \frac{15 g'(3) - g(3) \cdot 5}{225}$$

$$= \frac{15(-2) - 9(5)}{225} = \frac{-75}{225} = -\frac{1}{3}$$

$$\textcircled{d} p(x) = f(x^2 - x) \quad p(-1) = f((-1)^2 - (-1)) = f(2)$$

$$= 0$$

$$p' = f'(2) \cdot (2x - 1) = (-2)(-3) = 6$$

350; 45, 54, 55, 63