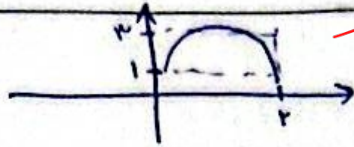
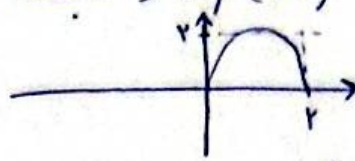


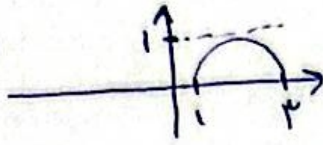
الف) $f(m) + 2$



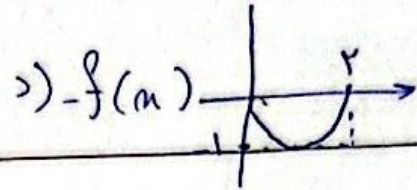
ب) $2f(m)$



ج) $f(m-1)$



(۲) ✓



الف) $x^2 - 5x + 4 > 0$

$(m-2)(m-4) > 0$

ب) $x^2 - 4x + 5 < 0$

$D_f = \mathbb{R} - [2, 4]$

$(m-1)(m-5)$

$D_f \leq (1, 5)$

ج) $x^2 + 4x + 5 \geq 0$

$(m+1)(m+5) \geq 0$

$D_f \leq (-5, -1)$

$x^2 - 4x + 5 \leq 0$

$(m-1)(m-4) \leq 0$

$D_f = [1, 4]$

الف) $\frac{x^2 - 3x + 2}{x - 5} < 0$

$\frac{(m-1)(m-2)}{m-5} < 0$

$\frac{-1}{1} \frac{0}{2} \frac{0}{5} \frac{+}{+}$

ب) $\frac{(m-1)(m+1)}{(m-1)(m-5)} \geq 0$

(۲) ✓

$D_f = (-\infty, 1) \cup (2, 5)$

$\frac{(m-1)(m-5)}{(m-1)(m-5)}$

$\frac{+}{-1} \frac{-}{-1} \frac{+}{5} \frac{+}{+}$

$\sqrt{\frac{x^2 - 1}{x^2 - 4}}$

$\frac{(m-1)(m^2 + m + 1)}{(m)(m-1)(m+1)}$

$\frac{+}{-1} \frac{-}{0} \frac{+}{1} \frac{+}{+}$

$(m-4)(m+4)$

$(m-1)(m-4)$

(۲) ✓

$D_f \leq (-\infty, -1) \cup (0, 1) \cup (1, +\infty)$

$D_f =$

$(-\infty, -4] \cup (1, 4) \cup (4, +\infty)$

$\sqrt{f} \sqrt{f-m}$

$f - \sqrt{f-m} \geq 0$

$\sqrt{f-m} \leq f$

$f-m \geq 0 \Rightarrow D_f = [f-1, f]$

$f \geq m \geq -1f$

$[f, 1] = D_f$

$f-m \leq 1f$

$m \geq -1f$

(۲) ✓

$f \leq m \leq 1f$

ب) $\sqrt{f-m} \leq f$

$m \geq f$

$\sqrt{f-m} \leq f$

$m \geq f$

$(m \leq 11)$

