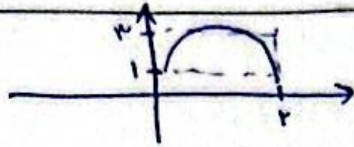


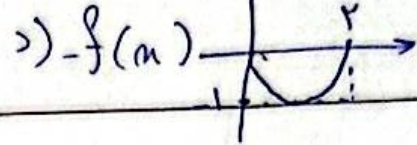
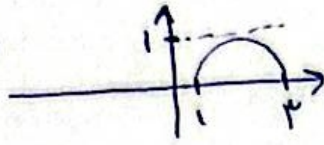
الف) $f(m) + 2$



ب) $2f(m)$



ج) $f(m-1)$



الف) $x^2 - 5x + 4 > 0$

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

ب) $x^2 - 4x + 5 < 0$

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

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

$D_f \leq (1, 5)$

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

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

$D_f = [1, 4]$

ج) $x^2 + 4x + 5 \geq 0$

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

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

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

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

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

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

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

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

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

$\frac{(m-4)(m+4)}{(m-1)(m-5)}$

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

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

$x - m \geq 0 \Rightarrow D_f = [2 - 14, 2]$

$\sqrt{4 - \sqrt{2 - m}}$

$4 - \sqrt{2 - m} \geq 0$

$2 \geq m \geq -14$

$\sqrt{2 - m} \leq 4$

$[2, 11] = D_f$

$2 \leq m \leq 11$

ب) $\sqrt{2 - \sqrt{m - 2}}$

$m - 2 \geq 0 \Rightarrow m \geq 2$

$\sqrt{m - 2} \leq 4 \Rightarrow m - 2 \leq 16 \Rightarrow m \leq 18$

$2 - \sqrt{m - 2} \geq 0 \Rightarrow \sqrt{m - 2} \leq 2 \Rightarrow m - 2 \leq 4 \Rightarrow m \leq 6$

$m \leq 11$

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