

19/10

نام و نام خانوادگی: امیرعلی میرزاش... پاسنامه تشریحی تکلیف شماره ۳... کلاس: ریاضی سیاه... دهم

بجای $y = x^3 - x = 2x^2 \rightarrow y^3 = x + 2x^2 \rightarrow y^3 = x + 2x^2$ و $y^3 = x + 2x^2 \rightarrow y^3 = x + 2x^2 \rightarrow y^3 = x + 2x^2$ بجای $y = x^3 - x = 2x^2$

الف) $x^3 - x = 2x^2 \rightarrow x^3 = x + 2x^2 \rightarrow x^3 = x + 2x^2$ بجای $y = x^3 - x = 2x^2$

ب) $x^3 - x = 2x^2 \rightarrow x^3 = x + 2x^2 \rightarrow x^3 = x + 2x^2$ بجای $y = x^3 - x = 2x^2$

ج) $x^3 - x = 2x^2 \rightarrow x^3 = x + 2x^2 \rightarrow x^3 = x + 2x^2$ بجای $y = x^3 - x = 2x^2$

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الف) $x^3 - x = 2x^2 \rightarrow x^3 = x + 2x^2 \rightarrow x^3 = x + 2x^2$ بجای $y = x^3 - x = 2x^2$

الف) $y = (x-2)(x-3)(x-4) \rightarrow$ $\frac{x}{-} \frac{2}{+} \frac{3}{+} \frac{4}{+}$

ب) $y = (x-2)(x-3)^2(x-4) = (x-2)(x-3)(x-3)(x-4) \rightarrow$
 $\frac{x}{+} \frac{2}{-} \frac{3^*}{-} \frac{4}{+}$

الف) $y = \frac{(x-2)(x-4)}{x-3} \rightarrow$ $\frac{x}{-} \frac{2}{+} \frac{3}{+} \frac{4}{+}$

ب) $y = \frac{(x-2)(x-4)}{(x-3)^2} \Rightarrow \frac{(x-2)(x-4)}{(x-3)(x-3)} \rightarrow \frac{x}{+} \frac{2}{-} \frac{3^*}{-} \frac{4}{+}$

الف) $y = \frac{x^3 - 3x + 2}{x-3} = \frac{(x-1)(x^2 + x - 2)}{x-3} = \frac{(x-1)(x-1)(x+2)}{x-3} \rightarrow$
 $\frac{x}{+} \frac{1}{-} \frac{1^*}{-} \frac{2}{+}$

ب) $y = \frac{x^2 - 3x + 2}{x^2 - 4x + 3} = \frac{(x-2)(x-1)}{(x-3)(x-1)} \rightarrow \frac{x}{+} \frac{1}{+} \frac{2}{-} \frac{3}{+}$

الف) $y = \frac{x^4 - x^2}{x^2 + x + 2} \rightarrow$ $\frac{x^2(x^2 - 1)}{x^2 + x + 2} \rightarrow \frac{x^2(x-1)(x+1)}{x^2 + x + 2} \rightarrow \frac{x}{+} \frac{1}{-} \frac{1^*}{-} \frac{2}{+}$

ب) $y = \frac{x^2 + 3x + 2}{x^2 + 2x + 3} \rightarrow$ $\Delta = 9 - 4 = 5$ $\rightarrow$ $df = \{1, +\infty\}$
 $\Delta = 4 - 9 = -5$ $\rightarrow$ $df = \{1, +\infty\}$
 دلتا - است $\Delta = 9 - 4 = 5$ $\rightarrow$ $df = \{1, +\infty\}$
 دلتا + است $\Delta = 4 - 9 = -5$ $\rightarrow$ $df = \{1, +\infty\}$

الف) $y = \sqrt{\frac{x^2 - 1}{x^2 + 1}} \rightarrow x^2 - 1 \neq 0 \rightarrow x(x-1) \neq 0 \rightarrow x \neq 0, 1$
 $\frac{x^2 - 1}{x^2 + 1} \geq 0 \rightarrow \frac{x}{+} \frac{1}{-} \frac{1^*}{+} \frac{1}{+} \rightarrow df = (1, +\infty) \cup (0, 1) \cup (-\infty, -1)$
 ب) $y = \sqrt{\frac{x^2 - 14}{x^2 - 10x + 4}} \rightarrow x^2 - 14 \geq 0 \rightarrow (x-4)(x+4) \geq 0 \rightarrow x \neq 4, -4$
 $\frac{x}{+} \frac{4}{-} \frac{1}{+} \frac{4^*}{+} \rightarrow df = (1, 4) \cup (4, +\infty) \cup (-\infty, -4)$