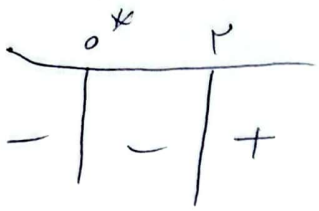
۱۴٫۷۵

نام و نام خانوادگی ...محمد صالح ثقفیان... پاسخنامه تشریحی تکلیف شماره ...۲۶... کلاس ...دهم ریاضی...

۱	$3 \times 1 = \frac{b}{1} \to b = 3$ $\frac{a}{1} = 3+1 = 4 = a \to a + b = 3 + 4 = 7$ (۲)
۲	$3x = -1 \to x = -\frac{1}{3}$ $x = 4 \to 4k - 8 + m - 1 = 0$ $4k + m = 9$ عدد طبیعی!!! $\to m = 5$ و $k = 1 \to \frac{\frac{5}{1}}{-\frac{1}{3}} + 1 = -14$ (۲)
۳	$x = -3$ و 1 $(x+3)(x-1)$ $-\frac{1}{2}x^2 + 2x + 6 > \frac{7}{2} \to -\frac{1}{2}x^2 + 2x + \frac{5}{2} > 0$ $\to x = -1$ و $5 \to 5 + 1 = 6$ (۲)
۴	$x^3 - 3x^2 - x + 3 < 0$ $(x-3)(x+1)(x-1) < 0$ $x > 0 \to (1, 3) \to f(2) = -3$ (۲)
۵	$a - 1 < 0 \to a < 1$ $a^2 + 1 - 2a - 4a + 4 < 0$ $\to a^2 - 6a + 5 < 0$ $\to (1, 5)$ اشتراک می‌گیریم → هیچ مقدار a (۲)

۶



$m < 2$ ✓

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

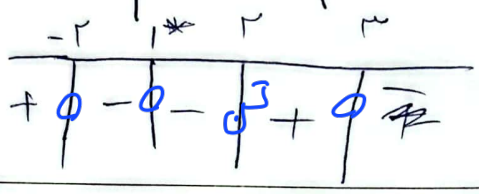
۴

۷

$x = 2\frac{1}{2}$

$x^* = 1$

$x = 2$



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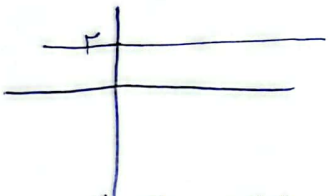
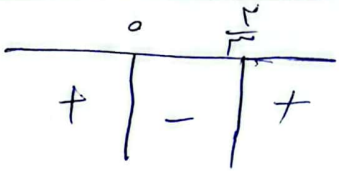
$[-2, 2) \cup [3, +\infty)$

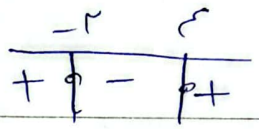
۸





۴

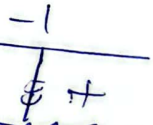
$\frac{3n^2-2n}{n^2+2} < 3 \rightarrow 3n^2-2n < 3n^2+1 \rightarrow n^2-2n-1 < 0$



$(-2, 4) \leftarrow 4+2=6$ ✓

۹

$0 < \frac{3n^2-4n+1}{n+1} \rightarrow 0 < \frac{3n^2-3n+1}{n+1}$

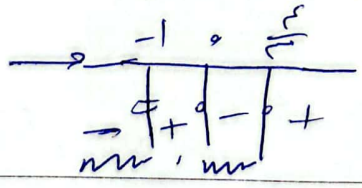


$(1, +\infty)$

الف) $n \in (\frac{1}{3}, 0)$ ✓

۴

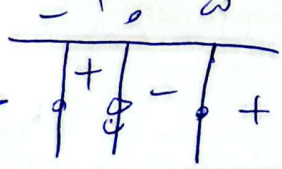
$\frac{3n^2-4n}{n+1} < 0$



$(-\infty, -1) \cup (0, \frac{4}{3})$

۱۰

$\frac{n^2-10}{n} - 3 < 0 \rightarrow \frac{n^2-3n-10}{n} < 0$



$(-\infty, -2] \cup (0, 5]$ ✓

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