



6

$$y = (x-1)(x-2)(x-3) \quad (1, 2) \cup (3, +\infty) \rightarrow y > 0$$

$$(-\infty, 1) \cup (2, 3) \rightarrow y < 0$$

$$\{1, 2, 3\} \rightarrow y = 0$$

7

$$y = (x-1)^2(x-2)(x-3)$$

$$\{1, 2, 3\} \rightarrow y = 0$$

$$(1, 2) \cup (3, +\infty) \rightarrow y > 0$$

$$(-\infty, 1) \cup (2, 3) \rightarrow y < 0$$

$$y = (x-1)(x-2)(x-3)$$

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$$y = \frac{(x-1)(x-2)}{(x-3)^2}$$

$$(-\infty, 1) \cup (2, 3) \rightarrow y > 0$$

$$(1, 2) \cup (3, +\infty) \rightarrow y < 0$$

$$y = \frac{x^2 - 3x + 2}{x^2 - 4}$$

$$\frac{x+1}{x} \geq 2 \Rightarrow x \geq -1$$

$$\frac{x-1}{x} \geq 1 \Rightarrow x \leq -1$$

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

$$y = \frac{x^2 - 3x + 2}{x^2 + x + 2}$$

$$-1 \leq x \leq -\frac{1}{2}$$

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$$y = \frac{x^2 + 3x + 2}{x^2 + x + 2}$$

$$-1 \leq x \leq -\frac{1}{2}$$

$$1 - a_1^2 - 2a_1^3 - y_1^3 \text{ الف}$$

$$14 = \frac{r}{r-1}$$

21.20 ✓

$$y = \frac{1}{2} \sqrt{-1} \quad \text{and} \quad z = \frac{1}{2} \sqrt{-1}$$

1

$$b) y_1'' + y_1 = \cos x$$

$$y_p + y_p = r_{n^p} - 1$$

$$y_1^2 - y_2^2 \text{ et } y_1 - y_2 = 0$$

$$(y_1 - y_p)(y_1^2 + y_1 y_p + y_p^2) = y_1^3 - y_p^3 = 0$$

الف) $y = 2x^3 - 1$

$$y = -\frac{21}{10}$$

c) $|y| = \frac{-x_2 + \sqrt{x_2^2 + 4}}{2}$

7.) $y^w = \frac{1}{n} \sum_{i=1}^n y_i$

$$y' = -1$$

$$y = \cancel{\sqrt{-1}} - 1$$

→) $\sqrt[n]{y} = y$
 $n=2$

2

$\tan \frac{\pi}{4} = \sqrt{1}$ (الف)

$$\frac{\sin}{\cos} \left(\frac{\frac{\sqrt{u}}{r}}{\frac{1}{r}} \right) = \frac{r \sqrt{u}}{r}$$

$$2.) \tan \varphi_0 = -\frac{1}{\sqrt{\mu}}$$

$$\frac{-\frac{1}{2}}{\frac{\sqrt{2}}{2}} = -\frac{1}{\sqrt{2}}$$

د) $10 + 180 = 190$
 $-\frac{1}{5}$

$$\frac{\cos}{\sin} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$$

3

الف) $\sin \alpha = \frac{1}{2} =$

$\frac{\pi}{4} \in \mathbb{Q}$
 $\cup \frac{\pi}{4} = \cup$

$$b) \cos a \pm \sqrt{\frac{y}{x}}$$

$$\mu_{12} = \frac{\pi}{\epsilon \Delta}$$

