

(4) $\frac{x^3 - x^2}{(x-6)(x-1)} \cdot \frac{x^2(x-1)}{(x-6)(x-1)}$ $\frac{x^2}{x-6}$

$x \neq 6, x \neq 1$

$(-\infty, 1) \cup (1, 6) \cup (6, \infty)$

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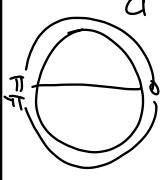
$-2c(3) + f(1)$ $\frac{6}{3} - \frac{1}{3}$

$-2(5-2)$ $\frac{1}{x-4}$ $\frac{5}{3}$

$-2(-1)$ $2 - \frac{1}{3}$

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(16) $\frac{c(1)}{d(-\pi)}$ $\frac{5^{(1-3)} - 2}{2(65(-\pi))}$ $\frac{5^{-2} - 2}{-2}$



$\frac{1}{25} - \frac{2}{25}$ $\frac{-49}{25} \cdot \frac{1}{-2}$ $\frac{49}{50}$

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(21) a) $f \circ g(x)$ 1. $-\infty, \infty$

$\sqrt{x-4} - 4$ 2. $[-2, 100]$

5 5^{x^2-4-4} 5^{x^2-8} D: $(-\infty, \infty)$

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$\sqrt[5]{5^{x-4}} - 4$ $(5^{x-4} - 4)$

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(28) c) $\sqrt{\sqrt{x-6} - 6}$

$\sqrt{\sqrt{x-6} - 6}$

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$$\sqrt{\sqrt{x-6} - 6} \geq 0$$

D: $[42, \infty)$

$$\sqrt{x-6} - 6 \geq 0$$

$$\begin{array}{r} +6 \\ +6 \end{array}$$

$$\sqrt{x-6} \geq 6$$

$$\begin{array}{r} +6 \\ +6 \end{array}$$

$$x-6 \geq 36$$

$$\begin{array}{r} +6 \\ +6 \end{array}$$

$$x \geq 42$$

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30) $\sqrt[3]{x}$

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