بنام خدا

رایان معماریان یازدهم A تکلیف ۱، ۳۰

SUBJECT:

Year: Month: Day:

Page : ( )

۱

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

۲

$$\frac{-3x+1-3x-1}{x} = \frac{-6x}{x} = -6$$

۳

$$\frac{\cancel{(\sqrt{x}-2)}(\sqrt{x}+2)}{\cancel{(\sqrt{x}-2)}} = 4$$

۴

$$\times \frac{\text{مج}}{\text{مج}} = \frac{x^2-2x}{4(x-2)(2x+3)} = \frac{x\cancel{(x-2)}}{4\cancel{(x-2)}(2x+3)} = \frac{2}{28} = \frac{1}{14}$$

۵

$$\times \frac{\text{مج}}{\text{مج}} = \frac{4(1-\sqrt{x})}{4-5-x} = \frac{(4)\cancel{(1-\sqrt{x})}}{(1+\sqrt{x})\cancel{(1-\sqrt{x})}} = \frac{4}{2} = 2$$

۶

$$\times \frac{\text{مج}}{\text{مج}} \times \frac{\text{قم}}{\text{قم}} = \frac{3x-12}{5x-20} \times \frac{27}{8} = \frac{81}{40}$$

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

۷

$$\times \frac{\text{مج}}{\text{مج}} \times \frac{\text{قم}}{\text{قم}} = \frac{3x+\sqrt{x}-4}{x-1} \times \frac{3}{4} = \frac{\cancel{(\sqrt{x}-1)}(3\sqrt{x}+4)}{\cancel{(\sqrt{x}-1)}(\sqrt{x}+1)} \times \frac{3}{4} = \frac{21}{8}$$

۸

$$= \frac{\cancel{(1+\cos x)}(\cos^2 x - \cos x + 1)}{1-\cos^2 x \quad (1-\cos x)\cancel{(1+\cos x)}} = \frac{3}{2}$$

Senobar

۹

$$= \frac{1-\frac{\sin x}{\cos x}}{\frac{\sin x-\cos x}{1}} = \frac{\frac{\cos x-\sin x}{\cos x}}{\frac{-(\cos x-\sin x)}{1}} = -\frac{1}{\cos x} = \boxed{-\sqrt{2}}$$

۱۰

$$= \frac{\frac{\sin^2 x}{\cos^2 x}-1}{\frac{\cos^2 x-\sin^2 x}{1}} = \frac{\frac{\sin^2 x-\cos^2 x}{\cos^2 x}}{\frac{-(\sin^2 x-\cos^2 x)}{1}} = -\frac{1}{\cos^2 x} = \boxed{-2}$$