35. LCD $= (2x-1)(x+3)$

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

$$=\frac{4(x+3)+x(2x-1)}{(2x-1)(x+3)}=\frac{2x^2+3x+12}{(2x-1)(x+3)}$$

36. LCD $= (x-1)(x+1)$

$$\frac{x+1}{x-1}-\frac{x-1}{x+1}=\frac{(x+1)(x+1)}{(x-1)(x+1)}-\frac{(x-1)(x-1)}{(x-1)(x+1)}$$

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

$$=\frac{x^2+2x+1-(x^2-2x+1)}{(x+1)(x-1)}=\frac{4x}{(x+1)(x-1)}$$

37. LCD $= (x-3)(x+1)(x+3)$

$$\frac{1}{(x-3)(x+1)}+\frac{1}{(x+3)(x-3)}$$

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

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

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

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

38. LCD $= (x-4)(2x+1)(2x-1)$

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

$$=\frac{4(2x-1)}{(x-4)(2x+1)(2x-1)}-\frac{x(2x+1)}{(x-4)(2x+1)(2x-1)}$$

$$=\frac{4(2x-1)-x(2x+1)}{(x-4)(2x+1)(2x-1)}$$

$$=\frac{-2x^2+7x-4}{(x-4)(2x+1)(2x-1)}$$

39. LCD $= (x-1)(x+5)$

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

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

$$=\frac{4x+20-3(x^2+4x-5)+3x^2}{(x-1)(x+5)}$$

$$=\frac{35-8x}{(x-1)(x+5)}$$

40. LCD $= (2x-1)(x+6)(3x-2)$

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

$$=\frac{(2x-3)(3x-2)-(3x+1)(2x-1)+(2x-1)(x+6)}{(2x-1)(x+6)(3x-2)}$$

$$=\frac{6x^2-13x+6-(6x^2-x-1)+2x^2+11x-6}{(2x-1)(x+6)(3x-2)}$$

$$=\frac{2x^2-x+1}{(2x-1)(x+6)(3x-2)}$$

41. $\left(1+\dfrac{1}{x}\right)^2=\left(\dfrac{x}{x}+\dfrac{1}{x}\right)^2=\left(\dfrac{x+1}{x}\right)^2=\dfrac{x^2+2x+1}{x^2}$

42. $\left(\dfrac{1}{x}+\dfrac{1}{y}\right)^2=\left(\dfrac{y}{xy}+\dfrac{x}{xy}\right)^2=\left(\dfrac{y+x}{xy}\right)^2$

$=\dfrac{y^2+2xy+x^2}{x^2y^2}$

43. $\left(\dfrac{1}{x}-y\right)^{-1}=\left(\dfrac{1}{x}-\dfrac{xy}{x}\right)^{-1}=\left(\dfrac{1-xy}{x}\right)^{-1}=\dfrac{x}{1-xy}$

44. $\left(a+\dfrac{1}{b}\right)^2=\left(\dfrac{ab}{b}+\dfrac{1}{b}\right)^2=\left(\dfrac{ab+1}{b}\right)^2$

$=\dfrac{a^2b^2+2ab+1}{b^2}$

45. Multiplying the numerator and denominator of the given fraction by x gives $\dfrac{7x+1}{5x}$.

46. Multiplying numerator and denominator by x gives $\dfrac{x+3}{x^2-9}=\dfrac{x+3}{(x+3)(x-3)}=\dfrac{1}{x-3}$.

Introductory Mathematical Analysis Text Solution Manual

Ying Liu

Introductory Mathematical Analysis Text Solution Manual:

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