7.
$$\frac{5}{x+3} = \frac{8+x}{x+3} - 3$$

$$\Rightarrow \text{LCD for the expressions is } x+3.$$

$$\Rightarrow (x+3)\left(\frac{5}{x+3}\right) = (x+3)\left(\frac{8+x}{x+3}\right) - 3(x+3)$$

$$\Rightarrow 5 = (8+x) - 3(x+3)$$

$$\Rightarrow 5 = -2x - 1$$

$$\Rightarrow 0 = -2x - 6$$

$$\Rightarrow x = -3$$
(Check! -3 is exfrancesis.)

... The solution set is
$$\{\}$$
 or ϕ .
8. $\frac{x+1}{3x+1} = \frac{5x+4}{3x^2-5x-2} - \frac{2}{x-2}$
 \Rightarrow LCD for the expressions is $(3x+1)(x-2)$.
 $\Rightarrow (3x+1)(x-2)\left(\frac{x+1}{3x+1}\right)$
 $=\left(\frac{5x+4}{(3x+1)(x-2)} - \frac{2}{x-2}\right)(3x+1)(x-2)$
 $\Rightarrow (x-2)(x+1) = 5x+4-2(3x+1)$
 $\Rightarrow x^2-x-2=-x+2$
 $\Rightarrow x^2-4=0$
 $\Rightarrow (x+2)(x-2)=0$
 $\Rightarrow x=\pm 2$
... The solution set is $\{-2\}$

9.
$$|2x + 3| = x - 4$$

 $\Rightarrow (2x + 3)^2 = (x - 4)^2$ (Square both sides.)
 $\Rightarrow (2x + 3)^2 - (x - 4)^2 = 0$
 $\Rightarrow [(2x + 3) + (x - 4)][(2x + 3) - (x - 4)] = 0$ (DOTS)
 $\Rightarrow (3x - 1)(x + 7) = 0$
 $\Rightarrow x = \frac{1}{3}, x = -7$ (Check! Both are extraneous.)
 $\Rightarrow x = \frac{1}{3}, x = -7$ (Check! Both are extraneous.)

10.
$$|3x - 5| - 3 = 1$$

 $\Rightarrow |3x - 5| = 4$
 $\Rightarrow 3x - 5 = 4 \text{ or } 3x - 5 = -4$
(a) $3x - 5 = 4 \Rightarrow 3x = 9 \Rightarrow x = 3$
(b) $3x - 5 = -4 \Rightarrow 3x = 1 \Rightarrow x = \frac{1}{3}$

∴ The solution set is { 1, 3}.

12.
$$|x-1|^2 + 6|x-1| - 7 = 0$$

 \Rightarrow Let $\heartsuit = |x-1|$. The equation now becomes
 $\heartsuit^2 + 6\heartsuit - 7 = 0$
 $\Rightarrow (\heartsuit + 7)(\heartsuit - 1) = 0$

⇒
$$\nabla = -7$$
, $\nabla = 1$
⇒ $|x - 1| = -7$ or $|x - 1| = 1$
(a) $|x - 1| = -7$ has no solution since $-7 < 0$.
(b) $|x - 1| = 1$

(b)
$$|x - 1| = 1$$

 $\Rightarrow x - 1 = 1 \text{ or } x - 1 = -1$
 $\Rightarrow x = 2 \text{ or } x = 0$

... The solution set is {0,2}

$$\Rightarrow (4 - 4)(4 + 1) = 0
\Rightarrow 4 = 4, 4 = -1
\Rightarrow x^{2} - 2x = 4, x^{2} - 2x = -1
\Rightarrow x^{2} - 2x - 4 = 0 \text{ or } x^{2} - 2x + 1 = 0$$

(a) x² - 2x - 4 = 0
 Using the Quadratic Formula, we get

$$x = \frac{2 \pm \sqrt{20}}{2} = 1 \pm \sqrt{5}$$

(b)
$$x^{2} - 2x + 1 = 0$$

 $\Rightarrow (x - 1)^{2} = 0$
 $\Rightarrow x = 1$

... The solution set is $\{1, 1 - \sqrt{5}, 1 + \sqrt{5}\}$

14.
$$x^{2/8} + 2x^{1/8} - 3 = 0$$

 \Rightarrow Let $\diamondsuit = x^{1/8}$. The equation now becomes

$$\diamondsuit^2 + 2\diamondsuit - 3 = 0$$

 $\Rightarrow (\diamondsuit + 3)(\diamondsuit - 1) = 0$
 $\Rightarrow \diamondsuit = -3, \diamondsuit = 1$
 $\Rightarrow x^{1/3} = -3, x^{1/3} = 1$
 $\Rightarrow x = (-3)^3 \text{ or } x = 1^3$
 $\Rightarrow x = -27 \text{ or } x = 1$ (Check! Both are valid.)
... The solution set is $\{-27, 1\}$.

15. $x^5 - 4x^3 - 8x^2 + 32 = 0$ \Rightarrow Grouping the first 2 terms and last 2 terms, then factoring out the common factors, we get

$$x^3(x^2-4)-8(x^3-4)=0$$

 $\Rightarrow (x^3-8)(x^2-4)=0$ $f(x^2-4)$ is a common factor,)
 $\Rightarrow (x-2)(x^2+2x+4)(x+2)(x-2)=0$
 $\Rightarrow (x-2)^2(x+2)(x^2+2x+4)=0$
 $\Rightarrow x=\pm 2$ $f(x^2+2x+4)$ has no real roots.)
 \therefore The solution set is $[\{-2,2\}]$.

16. $1 < -3x + 4 \le 10$ $\Rightarrow -3 < -3x \le 6$ $\Rightarrow \frac{-3}{-3} > \frac{-3x}{-3} \ge \frac{6}{-3}$ (-3 < 0, so < becomes >.) $\Rightarrow 1 > x \ge -2$ $\Rightarrow -2 \le x < 1$ \therefore The solution set is [-2, 1].

17.
$$x + 4 \le 3x + 1 \le 2x + 3$$

 $\Rightarrow x + 4 \le 3x + 1 \text{ and } 3x + 1 \le 2x + 3$
 $\Rightarrow 3 \le 2x \text{ and } x \le 2$
 $\Rightarrow x \in \left[\frac{3}{2}, +\infty\right) \cap \left(-\infty, 2\right] = \left[\frac{3}{2}, 2\right]$
 \therefore The solution set is $\left[\left(\frac{3}{2}, 2\right)\right]$

18. $5+x \le 4x+1 \le -4+2x$ $\Rightarrow 5+x \le 4x+1$ and $4x+1 \le -4+2x$ $\Rightarrow 4 \le 3x$ and $2x \le -5$ $\Rightarrow x \in \begin{bmatrix} \frac{1}{3}, +\infty \end{bmatrix} \cap \left(-\infty, -\frac{3}{2}\right) = \{\}$ \therefore The solution set is $\{\}$ or $\phi\}$.

19.
$$(x + 4)(x - 2) < -5x$$

 $\Rightarrow x^2 + 2x - 8 < -5x$
 $\Rightarrow x^2 + 7x - 8 < 0$
 $\Rightarrow (x + 8)(x - 1) < 0$
 $\Rightarrow CN$'s are -8 and 1.

Table of Signs:

	$(-\infty, -8)$	(-8.1)	$(1, \infty)$
(x + 8)		+	+
(x - 1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		+
LHS	+ -	0.	+

... The solution set is (-8,1)

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Siddappa N.Byrareddy

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