

**Corrective Assignment****Solve each equation. Check for extraneous solutions.**

1.

$$\frac{7}{x} + 3 = \frac{x}{4}$$

2.

$$\frac{3}{x} + \frac{1}{2} = \frac{x}{2}$$

3.

$$\frac{4}{x} + \frac{3}{2} = \frac{x}{4}$$

4.

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

5.

$$10 = \frac{3x - 1}{3x - 5}$$

6.

$$8 = \frac{5}{3x - 5}$$

7.

$$\frac{6}{a - 3} = \frac{5}{a^2 - 3a} + \frac{1}{a - 3}$$

8.

$$\frac{x + 6}{x^2 - 3x + 2} = \frac{5}{x - 1} - \frac{1}{x - 2}$$

9.

$$\frac{k-2}{k-4} = \frac{1-2k}{k^2-7k+12} - \frac{5}{k-3}$$

10.

$$\frac{7}{n^2-5n+6} + \frac{3}{n-2} = \frac{5}{n-3}$$

11.

$$\frac{3}{h+1} + \frac{4}{h} = \frac{5}{3h}$$

#### ANSWERS TO CORRECTIVE ASSIGNMENT 10.4

1. $x = -2$ and 14	2. $x = -2$ and 3	3. $x = -2$ and 8	4. $x = \frac{19}{14}$
5. $x = \frac{49}{27}$	6. $x = \frac{45}{24}$	7. $a = 1$	8. $x = 5$
9. $k = -5$ 3 is an extraneous solution	10. $n = 4$	11. $h = -\frac{7}{16}$	