Algebra II

5-8
Solving Equations
with
Fractional Coefficients

Notice:

Ignore all inequalities (greater than or less than signs) in this section. Make them equal signs!

```
Solve.

1) \frac{x}{9} + \frac{1}{6} = \frac{2}{3}  

2 × + 3 = 12

2 × + 3 - 3 = 12 - 3

2 × = \frac{2}{3}  

× = \frac{2}{3}  

(93)
```

```
6x(x+1) - 5(x+1) = 10
6x^{2} + 6x - 5x - 5 = 10
6x^{2} + x - 5 - 10 = 10 - 10
6x^{2} + x - 15 = 0
(3x + 5)(2x - 3) = 0
3x + 5 = 0 \quad 2x - 3 = 0
3x - 5 \quad 2x = 3
x - 5 \quad x = 5
x - 5 \quad x = 5
```

```
23)\left(\frac{1}{6} + \frac{1-2}{4}\right) = \frac{1+1}{3}
26^{2} + 36 - 2) - 4(6+1)
26^{2} + 36 - 6 = 46 + 4
26^{2} + 36 - 46 - 6 = 0
26^{2} - 6 - 10 = 0
(24 - 5)(6 + 2) = 0
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