Algebra 2 Bellwork Monday, January 26, 2015

Solve each equation.

1. $\frac{2x}{9} + \frac{7}{6} = \frac{5}{3}$

2. $\frac{4x}{x+1} = \frac{3}{7}$

3. $\frac{2x}{5} = \frac{8}{x+1}$

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Solve each equation.

1. $\left(\frac{2x}{9} + \frac{7}{6} = \frac{5}{3}\right)18$

$4x + 21 = 30$

$-21 \quad -21$

$4x = 9$

$x = 9/4$

2. $\frac{4x}{x+1} \times \frac{3}{7}$

$4x \cdot 7 = 3(x+1)$

$28x = 3x + 3$

$-3x \quad -3x$

$25x = 3$

$x = 3/25$

3. $\frac{2x}{5} \times \frac{8}{x+1}$

$40 = 2x(x+1)$

$40 = 2x^2 + 2x$

$\frac{0}{2} = \frac{2x^2 + 2x - 40}{2}$

$0 = x^2 + x - 20$

$0 = (x+5)(x-4)$

$x = -5, 4$