

SM3-A HW #5-1 (solve rational equations)

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1)
$$\frac{6n-1}{n} = 1 - \frac{4}{n}$$

2)
$$\frac{a+1}{4a} = \frac{a+2}{a} + \frac{3}{4}$$

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

4)
$$\frac{m+3}{m} = \frac{5}{m} - 4$$

5)
$$\frac{3}{n^2} - \frac{n^2+3n-18}{5n^2} = \frac{1}{n}$$

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

7)
$$\frac{1}{3} + \frac{m+3}{3m^2} = \frac{5}{m^2}$$

8)
$$\frac{1}{6} - \frac{a+4}{6a^2} = \frac{2a-4}{3a^2}$$