Solve the following rational equations.

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Be sure to check for extraneous solutions.

 (4 points each)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. $ \frac{1}{4a}+\frac{5}{8a}=\frac{1}{2}$ 2. $ \frac{p+10}{p^{2}-2}=\frac{4}{p}$

3. $ \frac{9}{t-3}=\frac{t-4}{t-3}+\frac{1}{4}$ 4. $\frac{c+1}{c-3}=4-\frac{12}{c^{2}-2c-3}$