

SM3-A HW #5-3 (Practice)

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{1}{n} + 1 = \frac{5}{n}$

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

3) $\frac{1}{5k} + \frac{6}{5k^2} = \frac{1}{k^2}$

4) $\frac{5}{3p^2} - \frac{1}{6p} = \frac{1}{3p^2}$

5) $\frac{1}{5} = \frac{n-3}{5n} - \frac{n-6}{5n^2}$

6) $\frac{1}{p^2} + \frac{p^2 - p - 30}{4p^2} = \frac{p-2}{4p}$

7) $\frac{b^2 + 6b + 9}{2b^2} - \frac{3}{2} = \frac{b+3}{4b}$

8) $\frac{1}{p} = \frac{3p+2}{2p} + \frac{p+5}{2}$

$$9) \sqrt{2-n} = \sqrt{-5-2n}$$

$$10) \sqrt{2v+22} = \sqrt{-18-2v}$$

$$11) 9 + \sqrt{1-8m} = 18$$

$$12) \sqrt{7-7k} - 8 = -1$$

$$13) \sqrt{6-b} = b$$

$$14) \sqrt{-6+5a} = a$$

$$15) n = \sqrt{2-n}$$

$$16) n = \sqrt{-90+19n}$$