

## Unit 4 Day 8 Warm Up

Solve each equation. Remember to check for extraneous solutions.

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

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

3) 
$$\frac{5}{b^2+2b-15} + \frac{1}{b+5} = \frac{1}{b^2+2b-15}$$

4) 
$$\frac{5}{2n} = \frac{1}{2n} + 1$$

5) 
$$\frac{1}{x+2} + \frac{1}{x^2+7x+10} = \frac{6}{x^2+7x+10}$$

6) 
$$\frac{a-8}{12a^2-28a-24} + \frac{1}{12a+8} = \frac{1}{2a-6}$$

7) 
$$\frac{x+4}{x^2-6x} = \frac{x+4}{2x^2-12x} - \frac{x-1}{x^2-6x}$$

8) 
$$\frac{1}{v^2-8v} - \frac{v-7}{v^2-8v} = \frac{1}{v-8}$$

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Solve each equation. Remember to check for extraneous solutions.

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

$$\{2\}$$

$$2) 1 + \frac{7}{4x} = \frac{2}{x} \left\{ \frac{1}{4} \right\}$$

$$3) \frac{5}{b^2+2b-15} + \frac{1}{b+5} = \frac{1}{b^2+2b-15}$$

$$\{-1\}$$

$$4) \frac{5}{2n} = \frac{1}{2n} + 1$$

$$\{2\}$$

$$5) \frac{1}{x+2} + \frac{1}{x^2+7x+10} = \frac{6}{x^2+7x+10}$$

$$\{0\}$$

$$6) \frac{a-8}{12a^2-28a-24} + \frac{1}{12a+8} = \frac{1}{2a-6} \left\{ -\frac{15}{4} \right\}$$

$$7) \frac{x+4}{x^2-6x} = \frac{x+4}{2x^2-12x} - \frac{x-1}{x^2-6x} \left\{ -\frac{2}{3} \right\}$$

$$8) \frac{1}{v^2-8v} - \frac{v-7}{v^2-8v} = \frac{1}{v-8}$$

$$\{4\}$$