

Math 3 Advanced  
9.3 Solving Rationals

Solve.

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

2.  $y + \frac{5}{y} = -6$

3.  $x + \frac{4}{x} = -5$

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

5.  $\frac{-5}{9} = \frac{1}{7-3c}$

6.  $\frac{1}{2y} - \frac{1}{4} - \frac{3-y}{3y} = 0$

7.  $0 = \frac{13}{54} + \frac{a-2}{9a} - \frac{5}{6a}$

8.  $\frac{2}{w} - \frac{2}{5} + \frac{w-1}{3w} = 0$

9.  $0 = \frac{9}{2c} - \frac{4+c}{4c} - \frac{5}{36}$

10.  $\frac{a}{a-3} + 2 = \frac{-3}{3-a}$

**Answer List**

- |                    |                   |
|--------------------|-------------------|
| 1. 7               | 2. $-1, -5$       |
| 3. $-1, -4$        | 4. $\frac{11}{6}$ |
| 5. $\frac{44}{15}$ | 6. 6              |
| 7. 3               | 8. 25             |
| 9. 9               | 10. $\emptyset$   |

**Catalog List**

- |              |               |              |              |
|--------------|---------------|--------------|--------------|
| 1. TRI AG 6  | 2. TRI AG 7   | 3. TRI AG 8  | 4. TRI AG 9  |
| 5. TRI AG 10 | 6. TRI AG 37  | 7. TRI AG 38 | 8. TRI AG 39 |
| 9. TRI AG 40 | 10. TRI AG 41 |              |              |