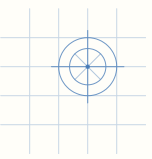


Rational equations — Both forms



Name: _____

Date: _____

Solve each equation for x.

1 $\frac{56}{x} = 8$, x = 7

$$x \neq 0$$

$$56 = 8(x)$$

$$x = 7$$

$$x = 7 \text{ and } x \neq 0$$

2 $\frac{42}{(x-7)} = \frac{-3}{(x+8)}$, x = _____

3 $\frac{-44}{(x-5)} = 4$, x = _____

4 $\frac{22}{(x+4)} = 2$, x = _____

5 $\frac{36}{(x-1)} = \frac{64}{(x-8)}$, x = _____

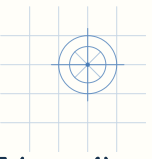
6 $\frac{11}{(x+2)} = \frac{9}{x}$, x = _____

7 $\frac{6}{(x+5)} = 3$, x = _____

8 $\frac{20}{(x-3)} = \frac{24}{(x-4)}$, x = _____



Rational equations · Both forms — Answer key



1. $56/x = 8 \rightarrow x = 7$ ($x \neq 0$)

2. $\frac{42}{x-7} = -\frac{3}{x+8} \rightarrow x = -7$ ($x \neq -8, 7$)

3. $-\frac{44}{x-5} = 4 \rightarrow x = -6$ ($x \neq 5$)

4. $\frac{22}{x+4} = 2 \rightarrow x = 7$ ($x \neq -4$)

5. $\frac{36}{x-1} = \frac{64}{x-8} \rightarrow x = -8$ ($x \neq 1, 8$)

6. $\frac{11}{x+2} = 9/x \rightarrow x = 9$ ($x \neq -2, 0$)

7. $\frac{6}{x+5} = 3 \rightarrow x = -3$ ($x \neq -5$)

8. $\frac{20}{x-3} = \frac{24}{x-4} \rightarrow x = -2$ ($x \neq 3, 4$)