Solve algebraic fraction equations involving addition or subtraction

Maths

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Solve algebraic fraction equations

1. Solve the following equations

a) $\frac{2d}{3}+\frac{3d+4}{3}=8$ b) $\frac{t+4}{5}+\frac{2t-4}{10}=10$

c) $\frac{2r+4}{9}+\frac{r+2}{4}=0$ d) $\frac{2w-5}{7}-\frac{2w-1}{2}=6$

2. Solve the following equations

a) $\frac{4d}{4d+2}+\frac{3}{d}=1$ b) $\frac{1}{k}+\frac{3k}{k+3}=3$

3. Solve the following equations

c) $\frac{4}{h-3}-\frac{3}{h-2}=1$ d) $\frac{2}{2t-1}=1-\frac{1}{t-2}$

Answers

Solve algebraic fraction equations

1. Solve the following equations

a) $\frac{2d}{3}+\frac{3d+4}{3}=8$

d = 4

b) $\frac{t+4}{5}+\frac{2t-4}{10}=10$

t = 24

c) $\frac{2r+4}{9}+\frac{r+2}{4}=0$

r = -2

d) $\frac{2w-5}{7}-\frac{2w-1}{2}=6$

w = -8.7

2. Solve the following equations

a) $\frac{4d}{4d+2}+\frac{3}{d}=1$

d = -0.6

b) $\frac{1}{k}+\frac{3k}{k+3}=3$

$k=\frac{3}{8}$

3. Solve the following equations

c) $\frac{4}{h-3}-\frac{3}{h-2}=1$

h = 1 or 5

d) $\frac{2}{2t-1}=1-\frac{1}{t-2}$

t = -3.5 or 1