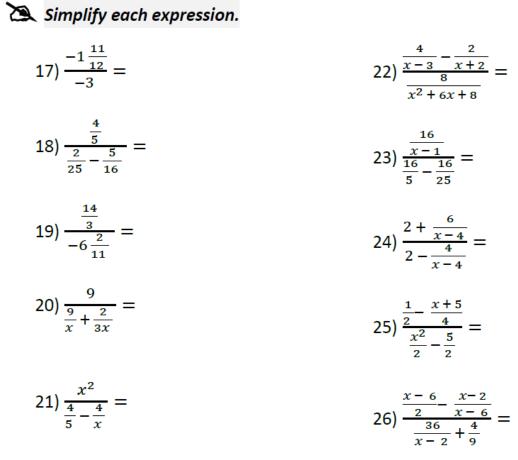
er to check for extraneous solutions.
9) $\frac{5}{r-2} = -\frac{10}{r+2} + 7$
10) $1 = \frac{1}{x^2 + 2x} + \frac{x - 1}{x}$
11) $\frac{1}{x} = 8 + \frac{6}{9x}$
12) $\frac{x+5}{x^2-2x} - 1 = \frac{1}{x^2-2x}$
13) $\frac{x-2}{x+3} - 1 = \frac{1}{x+2}$
$14)\frac{1}{6x^2} = \frac{1}{3x^2} - \frac{1}{x}$
15) $\frac{x+5}{x^2-x} = \frac{1}{x^2+x} - \frac{x-6}{x+1}$
$16) \ 1 = \frac{1}{x^2 - 2x} + \frac{x - 1}{x}$

#### Answers

### Solving rational equations and complex fractions

1)	$\{\frac{1}{2}\}$	9) $\{-\frac{6}{7}, 3\}$
2)	$\{-\frac{1}{5}\}$	10) {-1}
3)	{0, 14}	11) $\{\frac{1}{24}\}$
4)	$\{-\frac{15}{16}\}$	12) {4, -1}
5)	$\left\{\frac{1}{6}\right\}$	13) $\{-\frac{19}{8}\}$
6)	$\{-\frac{1}{2}\}$	14) $\{\frac{1}{6}\}$
7)	$\{\frac{1}{8}\}$	15) $\{-\frac{1}{4}\}$
8)	{2}	16) {4, 1}



#### Answers

$17)\frac{23}{36}$	22) $\frac{(x+7)(x+4)}{4(x-3)}$
$18) - \frac{320}{93}$	$23)\frac{25}{4x-4}$
$(19) - \frac{77}{102}$	$24)\frac{x-1}{x-6}$
$20)\frac{27x}{29}$	$(25)\frac{-3-x}{2x^2-10}$
$(21) \frac{5x^2}{3}$	$(26)\frac{3x^3-60x^2+252x-288-x}{2}$

21)  $\frac{1}{4x-20}$ 

 $26)\frac{3x^3 - 60x^2 + 252x - 288 - x}{584x + 8x^2 - 3792}$