SKILLS CHECK

QUESTION 1

Solve $\frac{3}{4}(x - 3) = x - 4$

QUESTION 2

Simplify $\frac{3}{x-1} + \frac{2}{x+1}$

QUESTION 3

Express $x^2 + 6x - 10$ in the form $(x + a)^2 + b$

QUESTION 4

Simplify $\frac{x^2-x-12}{x-4}$

QUESTION 5

Solve simultaneously $x^2 + y^2 = 25 \quad x - y = 7$

WEEK 1

SKILLS CHECK

QUESTION 1

Solve $\frac{4}{3}(x + 1) = \frac{4x}{5} + 4$

QUESTION 2

Simplify $\frac{4}{x+2} - \frac{2}{x+1}$

QUESTION 3

Express $x^2 - 10x + 10$ in the form $(x + a)^2 + b$

QUESTION 4

Simplify $\frac{x^2-36}{2x-12}$

QUESTION 5

Solve simultaneously $x^2 + y^2 = 10 \quad x - y = 2$

WEEK 2

SKILLS CHECK

QUESTION 1

Solve $\frac{3x}{2} + 10 = \frac{1}{3}(11 - 5x)$

QUESTION 2

Simplify $\frac{4}{x-3} - \frac{2}{x-1}$

QUESTION 3

Express $x^2 - 2x - 1$ in the form $(x + a)^2 + b$

QUESTION 4

Simplify $\frac{2x^2-x-6}{x-2}$

QUESTION 5

Solve simultaneously $x^2 + y^2 - x - y = 6 \quad x + y = 4$

SKILLS CHECK

QUESTION 1

Solve $\frac{6-4x}{5} = \frac{3x+7}{2}$

QUESTION 2

Simplify $\frac{2x}{x-3} + \frac{2}{x+5}$

QUESTION 3

Express $2x^2 + 12x + 5$ in the form $a(x+b)^2 + c$

QUESTION 4

Simplify $\frac{6x^2+5x-6}{2x^2+x-3}$

QUESTION 5

Solve simultaneously $x^2 + y^2 = 8 \quad x - y = 4$

WEEK 4

SKILLS CHECK

QUESTION 1

Solve $\frac{3}{7}(4x-7)=\frac{1}{2}(30-2x)+1$

QUESTION 2

Simplify $\frac{2x}{(x-1)^2}-\frac{1}{x-1}$

QUESTION 3

Express $2x^2-4x+1$ in the form $a(x+b)^2+c$

QUESTION 4

Simplify $\frac{12x^2+13x-4}{16x^2-1}$

QUESTION 5

Solve simultaneously $x^2+y^2=20 \quad x+y=6$

WEEK 5

SKILLS CHECK

QUESTION 1

Solve $\frac{1}{6}(7x-2)=\frac{1}{5}(6x-1)$

QUESTION 2

Simplify $\frac{2x+1}{x+1}-\frac{2x}{x+2}$

QUESTION 3

Express $4x^2-20x+2$ in the form $(ax+b)^2+c$

QUESTION 4

Simplify $\frac{25x-4x^2-25}{4x^2+15x-25}$

QUESTION 5

Solve simultaneously $x^2+y^2-xy=37 \quad x+y=1$

SKILLS CHECK

QUESTION 1

Solve $\frac{4}{9}(5x+3) = \frac{4x}{3} + 4$

QUESTION 2

Simplify $\frac{2x}{(x+3)^2} - \frac{3x}{2(x+3)}$

QUESTION 3

Express $4x^2 + 40x - 1$ in the form $(ax+b)^2 + c$

QUESTION 4

Simplify $\frac{12x^2+10x-12}{8x^2-4x-24}$

QUESTION 5

Solve simultaneously $x^2 + y^2 + xy - x - y = 16 \quad x + y = 5$

WEEK 7