Fractions

TEST

Question 1:

1.1 Simplify the following completely

1.1.1

$$\frac{3}{x^2-9} + \frac{2}{(x-3)^2}$$

1.1.2

$$\frac{x^2-x+1}{x^3+1} \div \frac{2x}{2x+2}$$

1.1.3

$$\frac{x^2}{x+1} \times \frac{x-2}{x^2-4} + \frac{x-1}{x+2}$$

1.1.4

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

1.1.5

$$\frac{a+1}{a-b} + \frac{1}{b}$$

1.1.6

$$\frac{x^2+3x+2}{2x^2+5x+2} \div \frac{x+2}{x+1}$$