

Q1) Factorise $8x^2 - 20xy$

Q2) What is $3^8 \times 3^3$? Give your answer in index form.

Q3) Solve $9x + 3 = -5x + 45$

Q4) Solve $4 < 6x - 8 \leq 22$

Q5) Simplify $(2x^2 \times 5x^6) \div 2.5x^{-2}$

Q6) Expand $4b(ab^2 - 3a + b)$

Q7) Find the value of $(\frac{16}{25})^{-\frac{3}{2}}$

Q8) What is the value of x^0

Q9) Solve $\frac{2x}{3} + 7 > 15$

Q10) $(16x^{20})^{\frac{1}{4}}$

Q11) Make x the subject of $3y = 4x + 5$

Q12) Simplify $\frac{32x^7y^5}{4x^2y \times 2xy^{-3}}$

Q13) Solve $\frac{3x+11}{5} = 12$

Q14) Factorise fully $16x^5y^3 - 24x^3y^2 - 20x^4y^3$

Q15) Make x the subject of $y = \frac{x+3}{x-1}$

Q16) What is the value of $125^{-\frac{1}{3}}$

Q17) Expand $3x^2(5y^4x^5 - \frac{2y}{x})$

Q18) Make a the subject of $\frac{\sqrt[3]{ab}}{c} = 4$