Algebra lesson 2 quiz

Substitution

If $x = 2$ and $y = 3$, Calculate the following:

① $x + 4 =$

② $3x + 2 =$

③ $5x - y =$

④ $7x - 3y =$

⑤ $3x^2 - y =$

⑥ $7xy - xy =$

Simplifying (Adding / subtracting)

Simplify the following expressions (Do not substitute in values)

① $2x + 4x =$

② $15x - 3x =$

③ $6x^2 + 4x^2 =$

④ $5xy + 4x =$

⑤ $7xy + 8xy =$

⑧ $15x^2y - 7x^2y =$

⑨ $7x + 5 =$

⑩ $7x + 6 - 4x =$

⑪ $5x + 2y - 3x - 4y =$

⑫ $5k + 10 - 3p - 6p =$

Simplifying (Multiplying / dividing)

① $2x \times 3x =$

② $2x \times 3 =$

③ $2x \times 3y =$

④ $4x^2 \times 3x =$

⑤ $\frac{10}{2} =$

⑥ $\frac{10x}{2x} =$

⑦ $\frac{10x^2}{2x} =$

⑧ $\frac{20xy}{4y} =$

Simplifying (Mixed)

① $2x + 3 \times 5x =$

② $4x \times 5x + 2x =$

③ $3x \times 7x - 2x^2 =$

④ $\frac{10x^2}{5x} + 3x =$

⑤ $\frac{20xy}{5x} + 2y =$