

* Multiply out the following. Show all your work.

① $(5x-7)(2x+3)$

② $(4x+1)^2$

③ $(7x-3)^2$

④ $(8x+1)(2x+5) + (4x-10)$

⑤ $(3x+5)(2x-3) + (7x-2)(7x+2)$

⑥ $(2x+1)^3$

⑦ $(3x-5)^3$

* Factor the following.

⑧ $x^2 - 6x + 9$

⑬ $9x^2 + 12x + 4$

⑨ $b^2 + 8b - 20$

⑭ $3x^2 - 14x - 5$

⑩ $3a^2 - 16a - 12$

⑮ $4x^2 - 19x + 12$

⑪ $12x^2 + 5x - 2$

⑯ $2a^2 + a - 6$

⑫ $6m^2 - 11m + 4$

* Simplify. (No Decimal Answers)

⑰ $\sqrt{200}$

⑲ $\sqrt[3]{192}$

⑱ $\sqrt{35}$

⑳ $\sqrt[3]{224}$