

More Binomial Expansion

(a) Expand and simplify $(x - 2)^6$

$$1 \times x^6 \times (-2)^0 \\ + 6 \times x^5 \times (-2)^1$$

(b) Expand and simplify $\left(3x + \frac{1}{2}\right)^4$

$$1 \times (3x)^4 \times \left(\frac{1}{2}\right)^0$$

(c) Expand and simplify $(x^2 + 5)^3$

(d) Expand and simplify $\left(\frac{x}{3} - 1\right)^5$

(e) Expand and simplify $\left(\frac{3}{2} - 5y\right)^4$

(f) Expand and simplify $(2x - \sqrt{3})^3$