

a)  $41 + 29\sqrt{2}$

b)  $x^{10} - 5x^7 + 10x^4 - 10x + \frac{5}{x^2} - \frac{1}{x^5}$

c)  $x^7 - 7\sqrt{2}x^6 + 42x^5 - 70\sqrt{2}x^4 + 140x^3 - 84\sqrt{2}x^2 + 56x - 8\sqrt{2}$

d)  $49 - 20\sqrt{6}$

e)  $a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5$

f)  $a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$

g)  $x^6 - 6x^4 + 15x^2 - 20 + \frac{15}{x^2} - \frac{6}{x^4} + \frac{1}{x^6}$

h)  $16 - 32x + 24x^2 - 8x^3 + x^4$

i)  $x^{10} - 10x^8 + 45x^6 - 120x^4 + 210x^2 - 252 + \frac{210}{x^2} - \frac{120}{x^4} + \frac{45}{x^6} - \frac{10}{x^8} + \frac{1}{x^{10}}$

j)  $239 - 169\sqrt{2}$

k)  $x^4 - 4x^3\sqrt{x} + 6x^3 - 4x^2\sqrt{x} + x^2$

l)  $\frac{401}{32} + \frac{149}{16}\sqrt{2}$

# Binomial Theorem Problems

**Alec J. Schramm**

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