

CALCULUS
Miscellaneous precalculus
OLD

0040-1. Find the intervals of positivity and negativity for $f(x) = (x + 3)^3(x - 2)^2(x - 5)$.

0040-2. a. Expand $(x + y)^6$.
b. Expand $(u^2 + 2v^3)^6$.

0040-3. Rationalize the numerator in

$$\frac{\sqrt{[2(4 + h)] + 5} - \sqrt{[2 \cdot 4] + 5}}{h}.$$