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MATH 1314 + MATH 0270
College Algebra with Foundations
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Review Problems fortest.

① $(3x)(4x^0)^2 \rightarrow (3x)(4)^2 \rightarrow (3x)(16) \rightarrow \boxed{48x}$

② $\left(\frac{2x^{-2}}{y^3}\right)^{-2} \rightarrow \left(\frac{2^{-2}x^4}{y^{-6}}\right) \rightarrow \frac{y^6x^4}{2^2} \rightarrow \boxed{\frac{y^6x^4}{4}}$

③ $\sqrt[6]{250}$ (use calculator) $\approx \boxed{2.51}$

④ $\frac{28y^5}{21y^3} \rightarrow \frac{28y^{5-3}}{21} \rightarrow \frac{28y^2}{21} \rightarrow \boxed{\frac{4}{3}y^2}$

⑤ $(5x^2+6x+7)+(2x^2-3x-4)$

$5x^2+6x+7+2x^2-3x-4$

$\boxed{7x^2+3x+3}$

⑥ $2(5x+2)^2$

$2(5x+2)(5x+2)$

$2(25x^2+20x+4)$

$\boxed{50x^2+40x+8}$

⑦ $(5x^2+6x+7)-(2x^2-3x-4)$

$5x^2+6x+7-2x^2+3x+4$

$\boxed{3x^2+9x+11}$