

Quiz 5.1-5.2 Review

**To put in equations, go to "Insert" and "Equation".

**Must show steps/work for credit on problems where necessary.

Simplify:

1) $\sqrt[3]{27x^8y^{11}}$

2) $\sqrt{50x^5y^2} * \sqrt{9x^3y^3}$

3) $\frac{\sqrt[3]{72n^5m^2}}{\sqrt[3]{5n^2m^7}}$

4) $7\sqrt[3]{6x^6y^2} * 5\sqrt[3]{9x^8y^9}$

5) $\frac{14\sqrt{14r^{13}w^7}}{10\sqrt{2r^7w^4}}$

6) $(-7 + \sqrt{3x})(4 + \sqrt{3x})$

Rationalize the denominator:

7) $\frac{3}{1-\sqrt{5}}$

8) Give the name for a and b in $\sqrt[a]{b}$.

a represents the _____.

b represents the _____.