

Angeles City Science High School

Math 9

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Section: 9 - Adenine

What I can Do

$$1. \frac{8x^2y^0z^{-1}}{8x^2(1)} = \frac{8x^2}{z}$$

$$2. \frac{6e^0 + (11e)^0 - 5}{9^0} = \frac{6(1) + 1 - 5}{1} = \frac{6 + 1 - 5}{1} = \frac{7 - 5}{1} = \frac{2}{1} = 2$$

$$3. \frac{5(2a^{-1}b^3)^0}{10c^{-5}d^6e^{-8}} = \frac{5(1)c^5e^8}{d^6(10)} = \frac{5c^5e^8}{2(10)d^6} = \frac{c^5e^8}{2d^6}$$

$$4. \frac{-5(m^{-4}n^{-5})^{-3}}{7(p^{-6}q^8)^{-5}} = \frac{-5(m^{12}n^{15})}{7(p^{30}q^{-40})} = \frac{-5(m^{12}n^{15})(q^{40})}{7p^{30}} = \frac{-5m^{12}n^{15}q^{40}}{7p^{30}}$$

$$5. \left( \frac{3x^{-4}y^{-5}z^{-2}}{9x^2y^{-8}z^{-9}} \right)^{-2} = \frac{3x^8y^{10}z^4}{9x^{-4}y^{16}z^{18}} = \frac{3x^8y^{10}z^4}{9y^{16}z^{18}} \cdot x^4 = \frac{3x^{12}}{9y^6z^{14}} = \frac{x^{12}}{3y^6z^{14}}$$