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Math worksheet on *'Exponents - Power Law with Variable Base (Negatives, Exponent with Power to Exponent) (Level 1)'*. Part of a broader unit on *'Exponents - Negative, Fractional, and Power Law'*

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1 Find the answer when this term is raised to its exponent

$(y^{-3})^6$

a y^3 **b** y^{-21} **c** y^{-17}

d y^{-15} **e** y^{-18}

2 Find the answer when this term is raised to its exponent

$(d^{-3})^6$

a d^{-180} **b** d^{-18} **c** d^{-21}

d $d^{-1,800}$ **e** d^3

3 Find the answer when this term is raised to its exponent

$(x^{-5})^2$

a x^{-8} **b** x^{-3} **c** x^{-11}

d x^{-100} **e** x^{-10}

4 Find the answer when this term is raised to its exponent

$(b^{-3})^5$

a b^{-15} **b** b^{-12} **c** b^{-1}

d b^{-16}

5 Find the answer when this term is raised to its exponent

$(z^{-2})^5$

a z^{-1} **b** z^{-10} **c** z^3

d z^{-9} **e** z^{-100}

6 Find the answer when this term is raised to its exponent

$(b^{-6})^4$

a b^{-23} **b** b^{-28} **c** b^{-22}

d b^{-2} **e** b^{-24}

7 Find the answer when this term is raised to its exponent

$(z^{-6})^5$

a z^{-24} **b** z^{-29} **c** $z^{-3,000}$

d z^{-30}