Name _____ Date _____

Rewriting Expressions - Step-by-Step Lesson

Which expression is equal to $x^8 - y^{10}$?

a) $4x^2 - 2y^5$ b) $(x^2)^4 - (y^2)^5$

c) $80(xy)^2$ d) $(x^2)^5 - (y^2)^4$

Explanation:

Choices a and c have whole number variables. We definitely cannot get these terms from our expression. That counts them out. Let's evaluate choice b and d.

b) $(x^2)^4 - (y^2)^5$ d) $(x^2)^5 - (y^2)^4$

Multiply the exponents to find the final value of the exponents.

b) $x^8 - y^{10}$ d) $x^{10} - y^8$

Choice b is the same as our original expression.

So the answer is b.