

Name _____

Power of Products

Find the value of x in each expression.

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| 1) $7^2 \cdot x^2 = 63^2$ $x = 9$ | 2) $(-3)^5 \cdot x^5 = 15^5$ |
| 3) $x^8 \cdot 7^8 = 42^8$ | 4) $7^x \cdot 4^x = 28^7$ |
| 5) $-3^5 \cdot 4^5 = -12^x$ | 6) $x^{12} \cdot 6^{12} = -24^{12}$ |
| 7) $(-5)^7 \cdot (-6)^7 = x^7$ | 8) $3^x \cdot 9^8 = 27^x$ |