

Review of Multiplying Powers

Simplify.

1) $2y^3 \cdot (2x^5y^5)^4$

2) $xy \cdot (2x^5y^3)^5$

3) $(2uv^2)^2 \cdot 2vu^4$

4) $2b^2 \cdot (ba^2)^3$

5) $(2y^5 \cdot 2yx^5)^3$

6) $(xy^3)^3 \cdot (2y^4)^2$

7) $(nm^3)^5 \cdot 2n^4$

8) $2m^3n^5 \cdot (m^2n^2)^5$

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Simplify.

1) $2y^3 \cdot (2x^5y^5)^4$
 $32y^{23}x^{20}$

2) $xy \cdot (2x^5y^3)^5$
 $32x^{26}y^{16}$

3) $(2uv^2)^2 \cdot 2vu^4$
 $8u^6v^5$

4) $2b^2 \cdot (ba^2)^3$
 $2b^5a^6$

5) $(2y^5 \cdot 2yx^5)^3$
 $64y^{18}x^{15}$

6) $(xy^3)^3 \cdot (2y^4)^2$
 $4x^3y^{17}$

7) $(nm^3)^5 \cdot 2n^4$
 $2n^9m^{15}$

8) $2m^3n^5 \cdot (m^2n^2)^5$
 $2m^{13}n^{15}$