

1. Simplify the following:
 $3x \cdot 4x^2y^3$

☐ A

$7x^2y^3$

☐ B

$12x^2y^3$

☐ C

$12x^3y^3$

☐ D

$7x^3y^3$

2. Simplify the following:
 $(4x^{-3})^{-2}$

☐ A

$-8x^6$

☐ B

$\frac{1}{16x^5}$

☐ C

$\frac{x^6}{16}$

☐ D

$-16x^6$

3. Simplify the following:
 $\frac{3a^{-1}b^{-3}}{a^{-3}b^3}$

☐ A

$\frac{3a^2}{b^6}$

☐ B

$3a^4$

☐ C

$\frac{3b^6}{a^2}$

☐ D

$\frac{3}{a^4}$

4. Simplify the following:
 $yx^2 \cdot (xy^0)^{-4}$

☐ A

$\frac{y}{x^3}$

☐ B

$\frac{y}{x^2}$

☐ C

$\frac{1}{x^2y^3}$

☐ D

yx^2

5. Simplify the following:
 $\frac{3y^4}{2x^2y^2 \cdot 4xy^4}$

☐

1

☐

y^{10}

Quiz 6 1 Simplifying Monomials

**Laura Mc Cullough, Michael D.
Rettig, Karen Santos**



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