

Section 5-6: Powers with Zero and Negative Exponents

The Negative Integral Exponent

1. 060020a, P.I. A2.A.8

What is the value of 3^{-2} ?

[A] $-\frac{1}{9}$ [B] -9 [C] 9 [D] $\frac{1}{9}$

2. 080522a, P.I. A2.A.8

What is the value of 2^{-3} ?

[A] -6 [B] $\frac{1}{6}$ [C] $\frac{1}{8}$ [D] -8

3. 010413a, P.I. A.A.12

The expression $8^{-4} \cdot 8^6$ is equivalent to

[A] 8^{-2} [B] 8^{-24} [C] 8^{10} [D] 8^2

4. 080730a, P.I. A2.A.8

The expression $(\frac{3}{4})^2 \cdot (\frac{1}{4})^{-2}$ is equivalent to

[A] $\frac{9}{16}$ [B] 9 [C] 3 [D] $\frac{9}{256}$

5. 010723a, P.I. A2.A.8

What is the value of $3^0 + 3^{-2}$?

[A] 0 [B] 6 [C] $1\frac{1}{9}$ [D] $\frac{1}{9}$

6. 010511a, P.I. A2.A.9

Which expression is equivalent to x^{-4} ?

[A] 0 [B] $\frac{1}{x^4}$ [C] $-4x$ [D] x^4

7. 080119a, P.I. A2.A.9

Which expression is equivalent to $x^{-1} \cdot y^2$?

[A] xy^2 [B] $\frac{y^2}{x}$ [C] $\frac{x}{y^2}$ [D] xy^{-2}

[1] D

[2] C

[3] D

[4] B

[5] C

[6] B

[7] B