

# Negative and Rational Exponents

**Simplify  $(-9)^2$**

Click on the correct answer.

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify  $-9^2$**

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify  $-9^{-2}$**

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify  $-9^{\frac{1}{2}}$**

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify  $-9^{-\frac{1}{2}}$**

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify  $\frac{1}{(-9)^2}$**

- 1.  $\frac{1}{81}$
- 2.  $-\frac{1}{81}$
- 3. 81
- 4. -81
- 5. 3
- 6. -3
- 7.  $\frac{1}{3}$
- 8.  $-\frac{1}{3}$

**Simplify**  $\frac{1}{-9^{-2}}$

1.  $\frac{1}{81}$
2.  $-\frac{1}{81}$
3. 81
4. -81
5. 3
6. -3
7.  $\frac{1}{3}$
8.  $-\frac{1}{3}$

**Simplify**  $\frac{1}{-9^{\frac{1}{2}}}$

1.  $\frac{1}{81}$
2.  $-\frac{1}{81}$
3. 81
4. -81
5. 3
6. -3
7.  $\frac{1}{3}$
8.  $-\frac{1}{3}$

**Simplify**  $-16^{-2}$

1.  $\frac{1}{256}$
2.  $-\frac{1}{256}$
3. 256
4. -256
5. 4
6. -4
7.  $\frac{1}{4}$
8.  $-\frac{1}{4}$

**Simplify**  $(-16)^2$

1.  $\frac{1}{256}$
2.  $-\frac{1}{256}$
3. 256
4. -256
5. 4
6. -4
7.  $\frac{1}{4}$
8.  $-\frac{1}{4}$

**Simplify**  $-16^{\frac{1}{2}}$

1.  $\frac{1}{256}$
2.  $-\frac{1}{256}$
3. 256
4. -256
5. 4
6. -4
7.  $\frac{1}{4}$
8.  $-\frac{1}{4}$

**Simplify**  $-16^{-\frac{1}{2}}$

1.  $\frac{1}{256}$
2.  $-\frac{1}{256}$
3. 256
4. -256
5. 4
6. -4
7.  $\frac{1}{4}$
8.  $-\frac{1}{4}$