

Mathematics 30-2 Pre-Requisite Review

ROOTS AND POWERS

1. The smallest number is

A. $\sqrt{10}$

B. $\frac{35}{11}$

C. π

D. $\tan 72^\circ$

2. Evaluate $(-4)^2$

A. -16

B. -2

C. 8

D. 16

3. Evaluate -5^3

A. -125

B. -75

C. 125

D. 243

4. Evaluate $\sqrt{\frac{16}{81}}$

A. $\frac{2}{9}$

B. $\frac{4}{9}$

C. $\frac{2}{3}$

D. $\frac{4}{3}$

For the next 3 questions, remember the following:

$$a\sqrt[c]{b}$$

b = radicand

c = index

5. When $\sqrt{192}$ is written as a simplified mixed radical, the value of the radicand is

A. 3

B. 8

C. 12

D. 48

6. When $5\sqrt{3}$ is written as an entire radical, the value of the radicand is

A. 15

B. 45

C. 75

D. 225

7. Simplify: $4^5 \times 4^6$

A. 4^{11}

B. 4^{30}

C. 8^{11}

D. 16^{30}

8. The expression that is equivalent to x^5 is

A. $(x^2)^3$

B. $\sqrt{x^{10}}$

C. $\left(\frac{x^{10}}{x^2}\right)$

D. $(x^5)(x^1)$

9. Simplify: $\frac{2x^{24}}{x^4}$

A. 2^6

B. 2^{20}

C. $2x^6$

D. $2x^{20}$

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