

Week 1 Wednesday Course 3 Warm-up

Which of the following has the same value as $3^2 \cdot 3^{-5}$?

- A) 9^{-10}
- B) 3^{-10}
- C) 9^{-3}
- D) 3^{-3}

Which value in scientific notation is about 9,802,733?

- A) 10^6
- B) 10^7
- C) 9×10^7
- D) 9×10^8

What does the following represent?

$$\sqrt[3]{24}$$

- A) the cube of 24
- B) 24 divided by 3
- C) the cube root of 24
- D) the product of 24 and 3



Solve for p .

$$\frac{1}{3}(4p - 9) = 8p + 12$$

- A) $-\frac{15}{4}$
- B) $-\frac{9}{4}$
- C) $\frac{9}{4}$
- D) $\frac{15}{4}$

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Week 1 Thursday Course 3 Warm-up

Which of the following has the same value as $7^7 \cdot 7^{-4}$?

- A) 49^{-3}
- B) 7^{-3}
- C) 7^3
- D) 49^3

Calculate.

$$\frac{(2 \times 10^5)(6 \times 10^6)}{3 \times 10^4}$$

- A) 4×10^7
- B) 4×10^8
- C) 4×10^{15}
- D) 4×10^{16}

Which is equal to the following?

$$\sqrt[3]{125}$$

- A) 5
- B) 25
- C) 41
- D) 50



If the relationship below were graphed, what would be the slope of the graph?

x	y
9	6
18	12
27	18
36	24

- A) $\frac{1}{3}$
- B) $\frac{1}{2}$
- C) $\frac{2}{3}$
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Week 1 Friday Course 3 Warm-up

Which of the following has the same value as $\frac{5^{-2}}{5^{-5}}$?

- A) $25^{\frac{2}{5}}$
- B) 5^{-3}
- C) $1^{\frac{2}{5}}$
- D) 5^3

What is the product?

$$(2.5 \times 10^3)(6 \times 10^4)$$

- A) 1.5×10^7
- B) 1.5×10^8
- C) 1.5×10^{12}
- D) 1.5×10^{13}

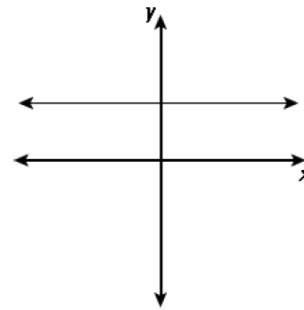
Which of the following is equivalent to the expression below?

$$\frac{\sqrt{64}}{\sqrt{16}}$$

- A) 2
- B) $\sqrt{2}$
- C) $\sqrt{5}$
- D) 4



The line graphed below can be described by an equation in the form of $y = mx + b$. For this line, which is true about the values of m and b ?



- A) Both are equal to 0.
- B) Neither is equal to 0.
- C) Only m is equal to 0.
- D) Only b is equal to 0.

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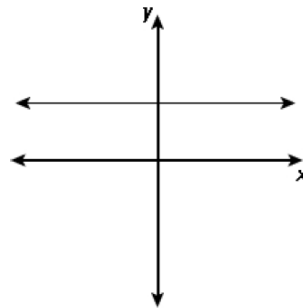
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