Week 1 Wednesday Course 3 Warm-up

| Find the Slope | ((19, -16) (-7, -15)

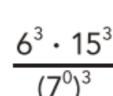


Merlin wants to put a fence around a right triangular garden. He measures two sides. Find the length of the unknown side.

Pythagorean Theorem

Simplify the Expression Write in Exponential Notation

$$\frac{\left[\left(\frac{3}{5}\right)\cdot\left(\frac{3}{5}\right)^3\right]^4}{\left[\left(\frac{3}{5}\right)^2\right]^2}$$



9 ft

Simplify Expression Write as positive exponent

12 ft

Week 1 Wednesday Course 3 Warm-up

Find the Slope

$$\frac{-15 - -16}{-7 - 19} = \frac{1}{-26}$$

Given two points:

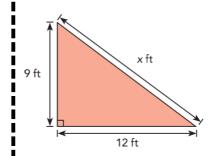
 (x_1, y_1) (x_2, y_2) Slope Formula:

 $y_2 - y_1$

 $x_2 - x_1$



Merlin wants to put a fence around a right triangular garden. He measures two sides. Find the length of the unknown side.



15

Pythagorean Theorem

Simplify the Expression Write in Exponential Notation

$$\frac{\left[\left(\frac{3}{5}\right)\cdot\left(\frac{3}{5}\right)^3\right]^4}{\Gamma(3)^2 \Gamma^2}$$

$$\left[\left(\frac{3}{5} \right)^2 \right]^2$$

$$(\frac{3}{5})^{12}$$

 90^{3}

Week 1 Thursday Course 3 Warm-up

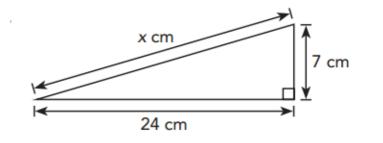
| Find the Slope | (1, -19) (-2, -7)



Pythagorean Theorem

Simplify the Expression Write in Exponential Notation

$$(a^6 \cdot a^7)^3 \div (4a^3)^2$$



Simplify Expression Write as positive exponent

$$\frac{2^8 \cdot (-3)^8 \cdot 3^0}{5^{-8}}$$

Week 1 Thursday Course 3 Warm-up

Find the Slope

$$(1, -19) (-2, -7)$$

$$\frac{-7 - -19}{-2 - 1} = \frac{12}{-3} = -4$$

Given two points:

 (x_1, y_1) (x_2, y_2)

Slope Formula:

Education Cent

Soaring Above The Rest.

$$y_2 - y_1$$

$$x_2 - x_1$$

Simplify the Expression Write in Exponential Notation

$$(a^6 \cdot a^7)^3 \div (4a^3)^2$$

$$\frac{a^{33}}{16}$$

Pythagorean Theorem

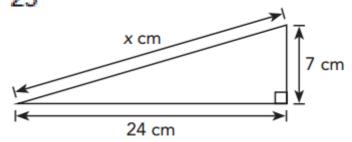
$$x^2 = 24^2 + 7^2$$

$$x^2 = 576 + 49$$

$$x^2 = 625$$

$$x = \sqrt{625}$$

$$x = 25$$



Simplify Expression Write as positive exponent

$$\frac{2^8 \cdot (-3)^8 \cdot 3^0}{5^{-8}}$$

$$-30^{8}$$

Week 1 Friday Course 3 Warm-up

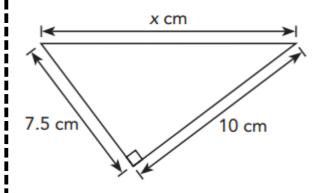
| Find the Slope | (-4, 7) (-6, -4)



Simplify the Expression Write in Exponential Notation

$$63x^9y^7 \div 9x^3y^4$$

Pythagorean Theorem



Simplify Expression Write as positive exponent

$$[12^2 \cdot 3^2]^3 \div 3^6$$

Week 1 Friday Course 3 Warm-up

Find the Slope

$$(-4, 7) (-6, -4)$$

Given two points:

 $(x_1, y_1) (x_2, y_2)$

Slope Formula:

Education Cent

Soaring Above The Rest.

$$\underline{\mathbf{y}_2 - \mathbf{y}_1}$$

$$x_2 - x_1$$

Pythagorean Theorem

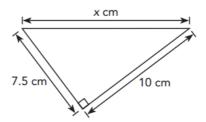
$$x^2 = 10^2 + 7.5^2$$

$$x^2 = 100 + 56.25$$

$$x^2 = 156.25$$

$$x = \sqrt{156.25}$$

$$x = 12.5$$



Simplify the Expression Write in Exponential Notation

$$63x^9y^7 \div 9x^3y^4$$

$$7x^6y^3$$

Simplify Expression Write as positive exponent

$$[12^2 \cdot 3^2]^3 \div 3^6$$

12⁶