

Expand $(3x-2)^2$.

Simplify and give answer with positive exponents only:

$$\frac{5^2 x^{-3} y^1}{10x^3(2y)^0}$$

If 15 people like classical music and 8 like jazz while 6 like both, what is the probability of selecting one of these people at random and they don't like both?

Find the distance between $(2.3, 5.1)$ and $(-1.4, 5.6)$ to the nearest hundredth.

Find the y value of the solution to this system of equations:

$$\begin{aligned}7x-2y&=3 \\ 2y&=7-3x\end{aligned}$$

Find the volume of a sphere with a radius of 7.21 to the nearest hundredth.

Find the equation of the line through $(-4, 6)$ and parallel to $5x+1y=7$.

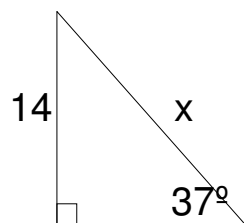
If $f(x)$ is a function over the real numbers, what is the range of $f(x)$ if $f(x) = 7-x^2$.

Solve for x in:
 $16 - 5(x + 2)^2 = 1$.

Evaluate:

$$\begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix} x \begin{bmatrix} 2 & 3 \\ 4 & -1 \end{bmatrix}$$

Find x to two decimal places:



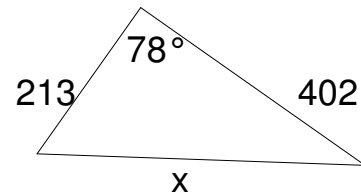
Find the minimum value of $f(x)$ if:
 $f(x) = 3x^2 - 6x + 1$

Describe the transformation where (x, y) is mapped to $(-x, -y)$.

If $f(x)=(x-2)^2$, find the inverse of $f(x)$ for $x < 2$.

Write the equation of a circle with a diameter of 5 that is tangent to the y -axis and has its center on the x -axis.

Find the length of x to two decimal places:



Solve for all possible values of θ where $0^\circ \leq \theta \leq 360^\circ$:

$$\cos^2(\theta) = 1/4.$$

Find dy/dx if $y=e^{2x}$

Evaluate $\int_0^3 2x dx$