

Sample Problems from Selected Math Classes

MATH 980

Simplify: $\frac{2}{3}\left(\frac{3}{4} - \frac{1}{2}\right)$

Graph: $4x - 2y + 12 = 0$

Solve for x : $9xy + z = 3w$

Solve for x : $-14 < -3x + 1 \leq 7$

MATH 1010

Solve for x :

$$5x^2 - 2(x - 1) = 4x^2 + 6x - 13$$

Solve for x : $2^{x+7} = 8$

Solve for x and y :

$$-3x + y = -1$$

$$x + y = 7$$

MATH 1050

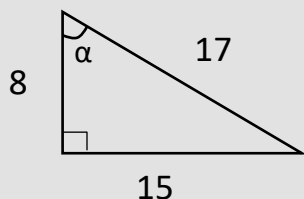
Solve for x : $f^{-1}(x)$ is the inverse function of $f(x)$, and $f(3x - 7) = 2$, and $f^{-1}(2) = 11$

Solve for x : $\log_3(x) + \log_3(x - 2) = 1$

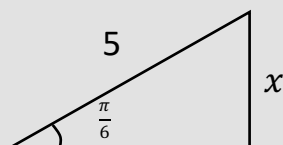
Find all roots of $x^3 - 2x^2 - 3x + 6$ (Hint: 2 is a root.)

MATH 1060

Solve for $\tan \alpha$:



Solve for x :



Simplify:

$$\sin^2(\theta) + \cos^2(\theta)$$

Graph: $\cos x$

For solutions see the math self-placement website, www.math.utah.edu/undergraduate/placement.php. If you're not familiar with how to solve the problems from a particular course, enroll in the course to learn the material before moving to a higher course.