

1.2.1 Day 1 Warm Up

① Solve for m (in other words, re-arrange the equation to isolate m)

$$n = \frac{7}{3}m - 10$$

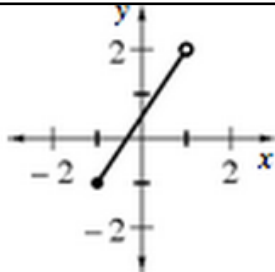
② Find the error in the solution at right. Explain what the error is and solve the equation correctly. Be sure to check your answer.

$$\begin{aligned} \frac{5}{x} &= x - 4 & \frac{5}{x} &= x - 4 \\ x \cdot \frac{5}{x} &= x - 4 \\ 5 &= x - 4 \\ x &= 9 \end{aligned}$$

③ Show how to find the y-axis intercept AND x-axis intercept(s) algebraically of the following function. when you are done, you can check with your calculator.

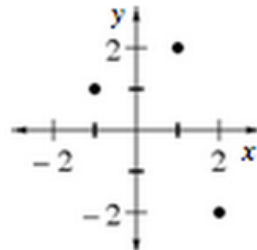
$$y = x^5 - 18$$

④



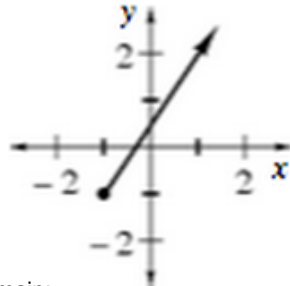
Domain:

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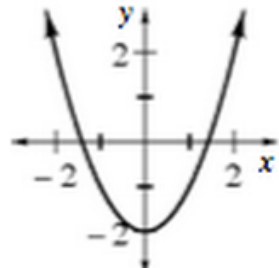
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One has to be careful when factoring quadratic trinomials into two binomials **when there is a common factor**. In fact, the box method doesn't quite work the same if you do not factor out the greatest common factor first.

Factor: $12x^2 + 22x + 6$

5

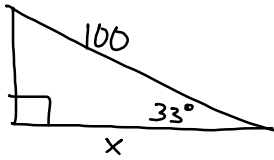
Hopefully you have already either written or pasted into your Algebra log, the Quadratic Formula. Use it to solve the following quadratic equation.

$$3x^2 - 2x - 5 = 0$$

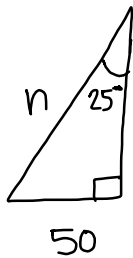
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Use SOH-CAH-TOA to solve for missing lengths.

①

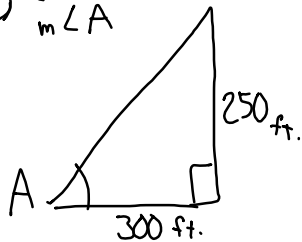


②



③

calculate $m\angle A$



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