Honors Pre-Calculus

Homework

1. The graph of $y = x^3 - 4x + 2$ passes through the point (0, 3a). What is the value of a?

$$\begin{array}{ccc}
X = 0 & 1 = 0^{3} - 4(0) + \lambda \\
4 = 3 & 3 & 0 = 0 + \lambda \\
3 & 2 & a = 2/3
\end{array}$$

Use the quadratic formula to solve the equation. (All solutions are real numbers.)

13)
$$2n^2 = -10n - 7$$

A) $\left\{ \frac{-10 + \sqrt{11}}{2}, \frac{-10 - \sqrt{11}}{2} \right\}$
C) $\left\{ \frac{-5 + \sqrt{11}}{2}, \frac{-5 - \sqrt{11}}{2} \right\}$

B)
$$\left\{ \begin{array}{c} -5 + \sqrt{39} & -5 - \sqrt{39} \\ \hline 2 & 2 \end{array} \right\}$$
D) $\left\{ \begin{array}{c} -5 + \sqrt{11} & -5 - \sqrt{14} \\ \hline 4 & 4 \end{array} \right\}$

$$2n^2+10n+7=0$$

$$\Lambda = \frac{-10 \pm \sqrt{100 - 4(2)(7)}}{4} = \frac{-10 \pm \sqrt{100 - 56}}{4} = \frac{-10 \pm \sqrt{44}}{4} = \frac{-10 \pm \sqrt{41}}{4} = \frac{1$$

4. Write a polynomial function that has zeros at x=2, -3, and 1 and which has one zero with a multiplicity of 4.

+ THREE KHAN SETS



Date:

Graphing Factored Polynomials 11/8/17

