



how do you change from standard to vertex form???

 $y = x^{2} + (4x - 7) = \frac{2}{2} = \frac{2}{4}$ $y + 7 = (x^{2} + 4x + 4)$ $y + 7 = (x^{2} + 4x + 4)$ $y = (3x^{2} + 4x - 2)$













Graph and decide end behavior

$$a)f(x) = x^{3} + 2x^{2} - 11x - 12$$

$$\lim_{x \to \infty} f(x) = \qquad \qquad \lim_{x \to -\infty} f(x) =$$

$$b)g(x) = 2x^{4} + 2x^{3} - 22x^{2} - 18x - 35$$

$$\lim_{x \to \infty} g(x) = \qquad \qquad \qquad \lim_{x \to -\infty} g(x) =$$







Prove all the zeros of $2x^4 - 7x^3 - 8x^2 + 14x + 8$ must lie in the interval [-2,5]



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