Bellwork Wednesday, November 7, 2018

1. Find all EXACT complex zeros by factoring: $y = 4x^7 + 16x^5 - 180x^3$

2. Use this polynomial: $y = x^4 - x^3 - 18x^2 + 6x + 72$ Two zeros are -3 and 4, find the EXACT remaining real zeros.

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1. Find all EXACT complex zeros by factoring: $y = 4x^7 + 16x^5 - 180x^3$

$$4x^{3}(x^{4} + 4x^{2} - 45)$$

$$+9x^{-5} \longrightarrow 4x^{3}(x^{2} + 9)(x^{2} - 5)$$

$$+4x^{2}(x^{2} + 9)(x^{2} - 9)$$

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2. Use this polynomial: $y = x^4 - x^3 - 18x^2 + 6x + 72$ Two zeros are -3 and 4, find the EXACT remaining real zeros.