

practice b investigating graphs of polynomial functions - 6 7 practice b investigating graphs of polynomial functions identify the leading coefficient degree and end behavior 1 p 3 2x 5 2 x 6 x x 2 2 q x 2 4 x x 1 identify whether the function graphed has an odd or even degree and a positive or negative leading coefficient, **6 7 investigating graphs of polynomial functions** - sorensen math search this site navigation home algebra i a alg i a pre test 6 7 investigating graphs of polynomial functions 6 8 transforming polynomial functions 6 9 curve fitting with polynomial models 6 7 investigating graphs of polynomial functions watch this lesson see examples of this lesson homework, **lesson reteach investigating graphs of polynomial functions** - 6 7 investigating graphs of polynomial functions lesson examine the sign and the exponent of the leading term term of greatest degree of a polynomial $p(x)$ to determine the end behavior of the function even degree functions exponent of leading term is even positive leading coefficient as $x \rightarrow \infty$ $p(x) \rightarrow \infty$ as $x \rightarrow -\infty$ $p(x) \rightarrow \infty$, **6 7 investigating graphs of polynomial functions** - 7 0 5 inch reading strategies 1 find the factors corresponding to the roots and multiply the factors 2 $x^3 - a^3 = (x - a)(x^2 + ax + a^2)$ or $x^3 - 6x^2 - 12x + 8 = (x - 2)(x^2 - 4x + 4) = (x - 2)(x - 2)^2$ because multiplying the equation by a nonzero number will not change its roots 4 $x^2 - 4x + 4 = (x - 2)^2$ 0 b 4 lesson 6 7 practice a 1 1 2 2 3 3, **6 7 investigating graphs of polynomial functions** - 6 7 investigating graphs of polynomial functions check it out example 4a graph $g(x) = x^3 - 2x^2 + 3$ on a calculator and estimate the local maxima and minima step 1 graph the graph appears to have one local maxima and one local minima step 2 find the maximum press to access the calc menu choose 4 maximum the local, **lesson investigating graphs of polynomial 6 7 equations** - a point on the graph of a function where the graph changes from increasing to decreasing or from decreasing to increasing for a function $f(x)$ $f(a)$ is a local maximum if there is an interval around a such that $f(x) \leq f(a)$ for every x value in the interval except a for a function $f(x)$ $f(a)$ is a local minimum if there is, **practice b 3 7 investigating graphs of polynomial functions** - 7 2 3 in by 6 4 in by 12 4 in 8 a 9 d reading strategies 1 a its degree is even and the leading coefficient is less than zero b the function approaches as $x \rightarrow \infty$ $f(x) \rightarrow \infty$ as $x \rightarrow -\infty$ $f(x) \rightarrow -\infty$ odd 4 it is positive transforming polynomial functions practice a 1, **lesson 3 7 investigating graphs of polynomial functions** - lesson 3 7 investigating graphs of polynomial functions assignments end behavior end behavior from a graph odd degree graphs have ends in two different directions even degree graphs have ends in the same direction to determine if it is positive or negative determine the slope from the left side to the right side of the graph

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