
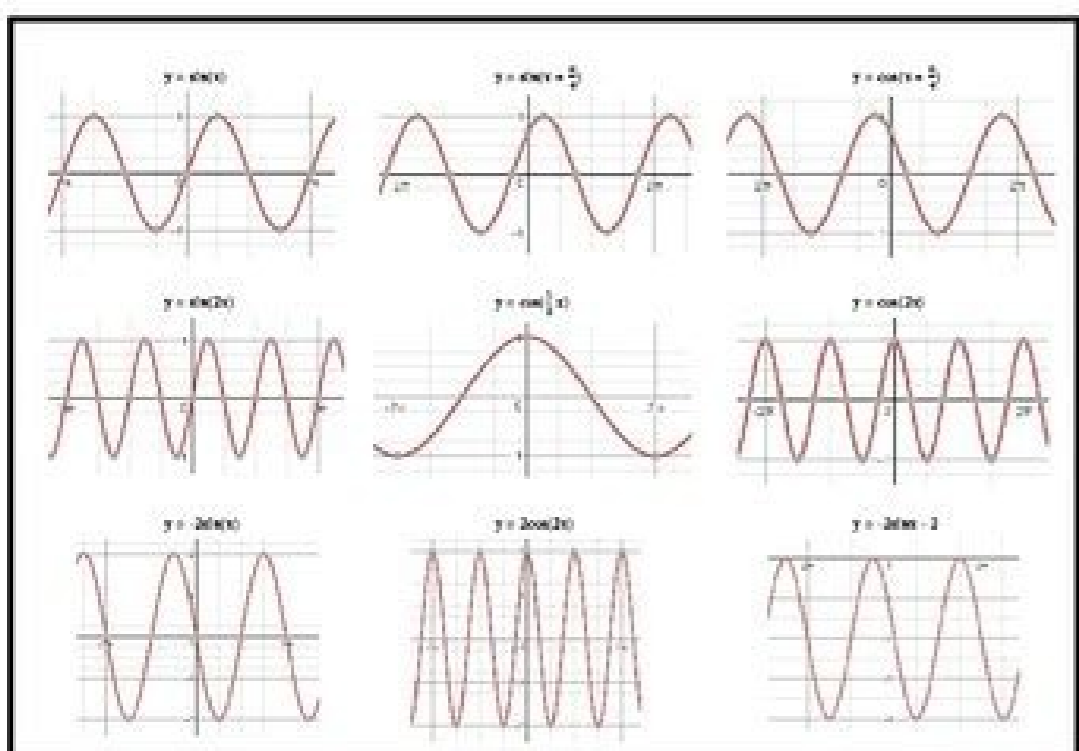


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Kuta Software - Infinite Algebra 2

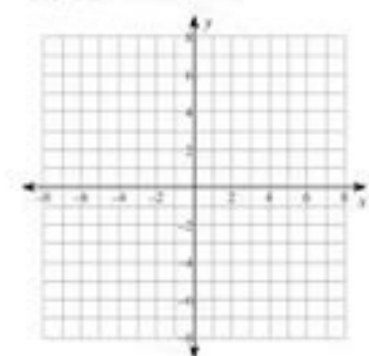
Name \_\_\_\_\_

Graphing Polynomial Functions

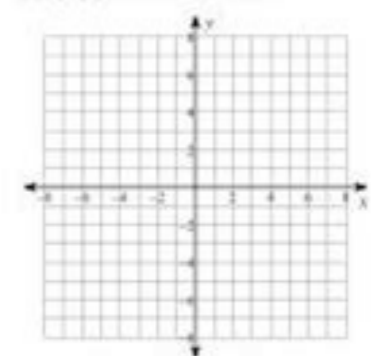
Date \_\_\_\_\_ Period \_\_\_\_\_

State the maximum number of turns the graph of each function could make. Then sketch the graph. State the number of real zeros. Approximate each zero to the nearest tenth. Approximate the relative minima and relative maxima to the nearest tenth.

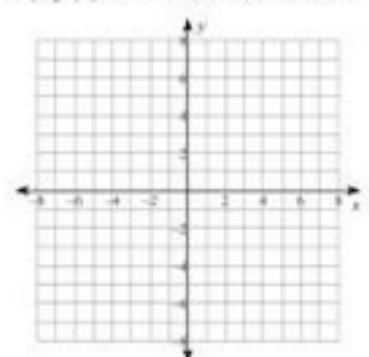
1)  $f(x) = x^2 + 2x - 5$



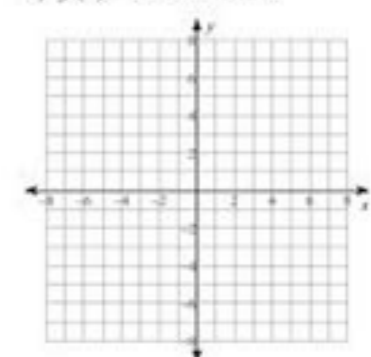
2)  $f(x) = -x^4 + x^2 + 2x^2$



3)  $f(x) = x^3 - 4x^2 + 2x^2 + x + 4$



4)  $f(x) = x^3 + x^2 - x - 2$



Matching sine and cosine graphs to their equations

Name \_\_\_\_\_

Match one graph with one equation and one set of transformations. Write the letter and number next to the graph that they match. Finally, justify each pairing in the graph box.

A. Sine graph with a period of $\frac{\pi}{4}$	1. $y = \sin \pi x$	
B. Cosine graph with a phase shift of $\frac{\pi}{2}$ right and a vertical shift down 3	2. $y = -\cos x$	
C. Sine graph with an amplitude of 2	3. $y = \sin\left(\frac{\pi}{2}x\right)$	
D. Sine graph with a period of $\frac{\pi}{2}$	4. $y = \sin\left(\frac{\pi}{2}x\right)$	
E. Cosine graph with a phase shift of $\frac{\pi}{2}$ left and a vertical shift down 3	5. $y = \cos\left(x + \frac{\pi}{2}\right) - 3$	
F. Cosine graph with an amplitude of 1 and reflected over the x-axis	6. $y = \cos\left(x - \frac{\pi}{2}\right) - 1$	







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