Sec 3.4 Transformations

Same old, same old....

Learn the parent and flip, stretch, and move.

$$y=a(k(x-d))^3+c$$

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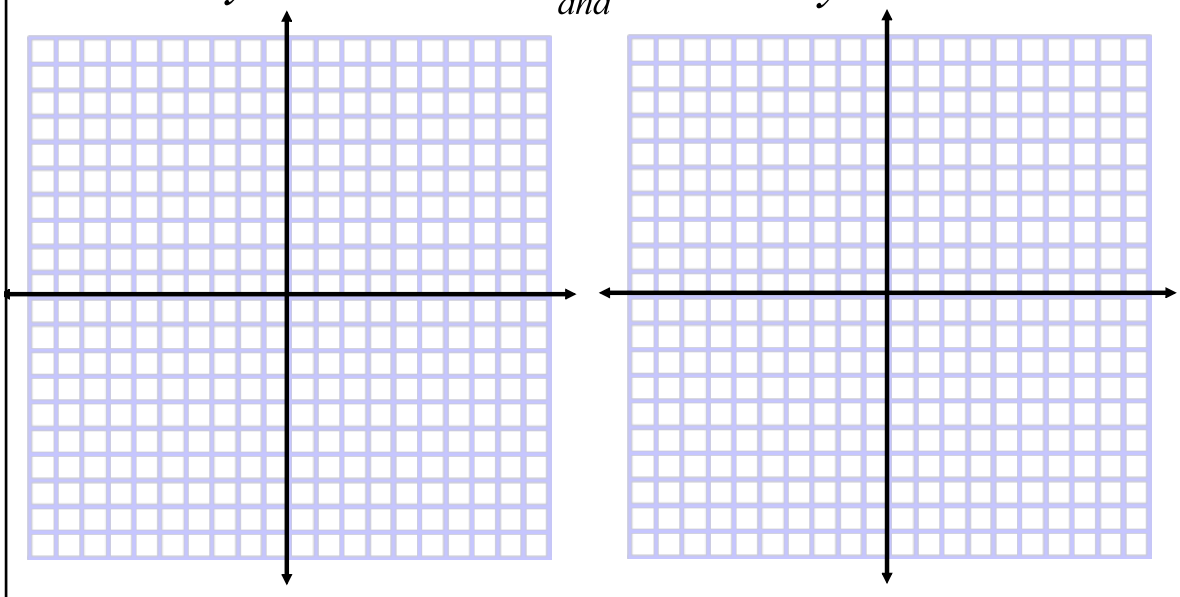
Set up t-charts and sketch the parent functions for:

$y = x^3$ *and* $y = x^4$



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p155 #1

1. Match each function with the most likely graph. Explain your reasoning.

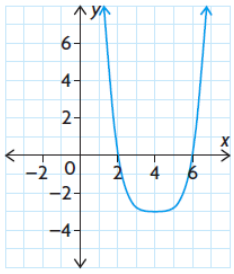
a) $y = 2(x - 3)^3 + 1$

b) $y = -\frac{1}{3}(x + 1)^3 - 1$

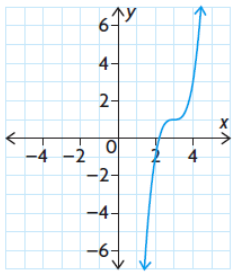
c) $y = 0.2(x - 4)^4 - 3$

d) $y = -1.5(x + 3)^4 + 4$

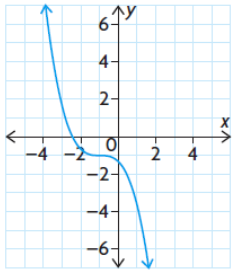
A



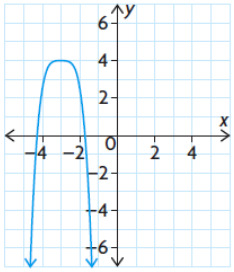
B



C



D



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Intro to long division

$3\overline{)456}$

$34\overline{)4456}$

Oct 8-1:30 PM

Now, what about

$$\frac{x^2 + x}{x}$$

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or:

$$\frac{x^2 + x - 2}{x + 2}$$

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What if the numerator is not factorable or not easily factored though?

Use long division:

$$\frac{x^2+x}{x}$$

$$x\overline{)x^2+x}$$

$$\frac{x^2+x-2}{x+2}$$

$$x+2\overline{)x^2+x-2}$$

Oct 12-12:26 PM

Homework

p155 #1, 2, 3
p169 #5

Oct 8-1:32 PM