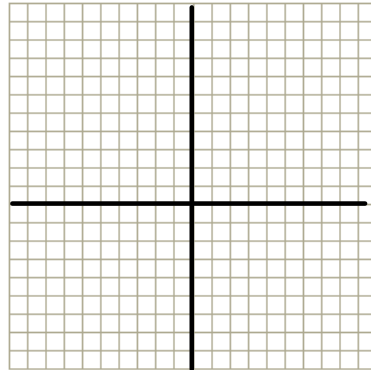
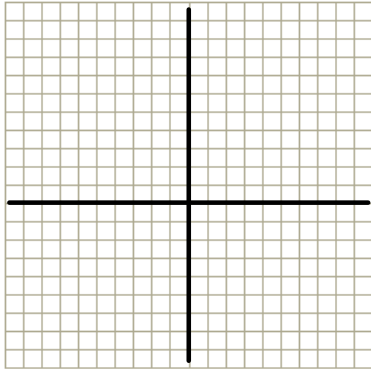


6.2 more

Graph the following: label x and y intercepts and local maximum and minimum.

① $y = x(x-8)^2$

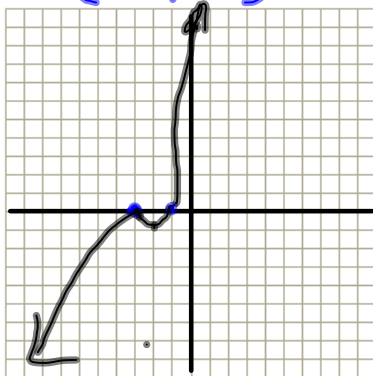
② $y = (2x+5)(x-3)^2$



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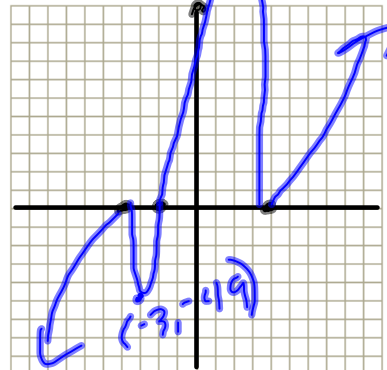
③ $y = (x+3)^2(x+1)$

$y = (0, 9)$
 $x = (-3, 0)$ (mult. 2)
 $(-1, 0)$



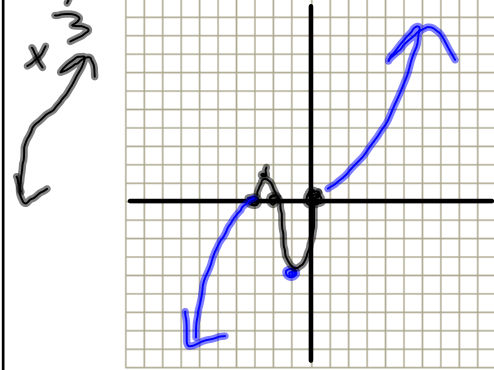
④ $y = (x-4)^2(x+2)(x+4)^2$

$y = (0, 512)$
 $x = (4, 0)$ (mult. 2)
 $(-2, 0)$
 $(-4, 0)$ (mult. 2)



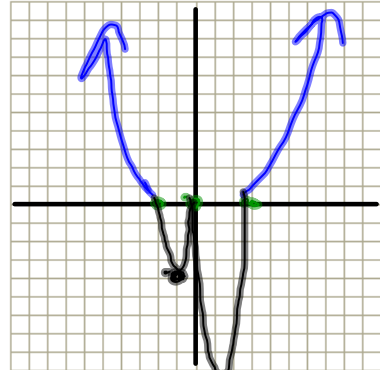
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⑤ $y = 2x^3 + 10x^2 + 12x$
 $2x(x^2 + 5x + 6)$
 $2x(x + 2)(x + 3)$
 $x = 0 \quad x = -2 \quad x = -3$
 $y_{int}: (0, 0)$



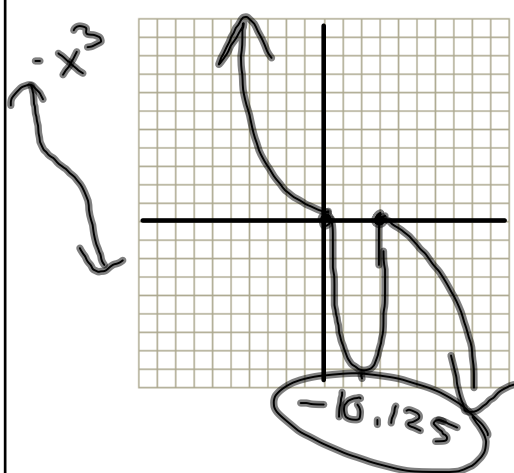
⑥ $y = x^4 - x^3 - 6x^2$
 $y = x^2(x^2 - x - 4)$
 $y = x^2(x - 3)(x + 2)$
 $x = 0 \quad x = 3 \quad x = -2$
 $x = 0$

$y_{int}(0,0)$
 x^4

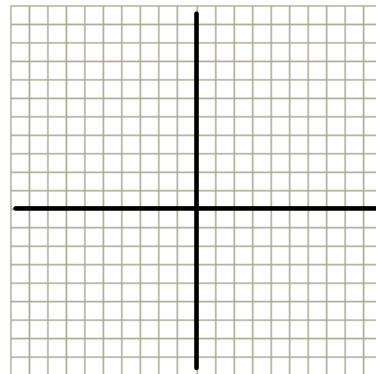


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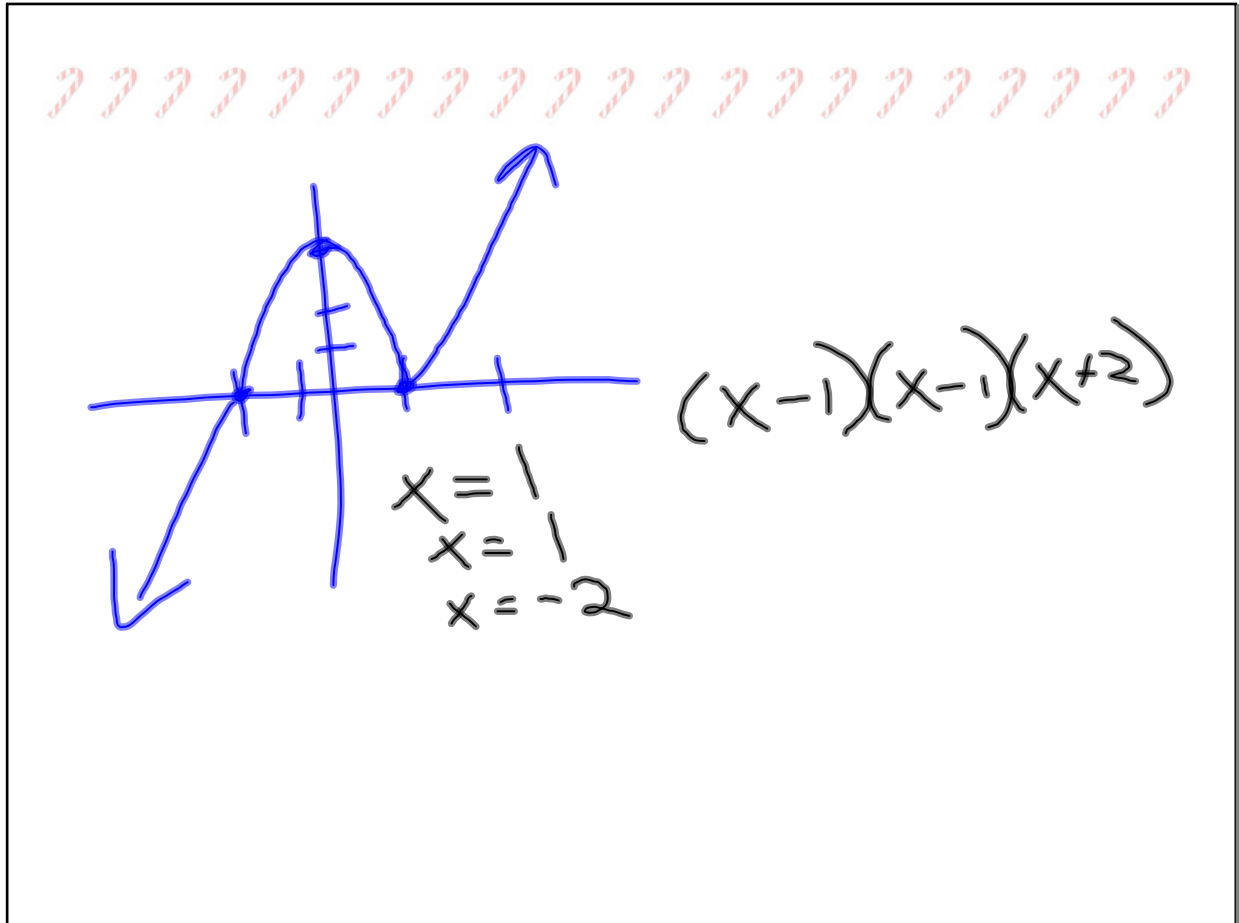
⑦ $y = -3x^3 + 18x^2 - 27x$
 $-3x(x^2 - 6x + 9)$
 $-3x(x - 3)(x - 3)$
 $x = 0 \quad x = 3 \text{ (mult. 2)}$



⑧ $y = (x^3 - 3x^2)(-x + 3)$
 $y = x^2(x - 3) - 1(x - 3)$
 $y = (x^2 - 1)(x - 3)$
 $x = \pm 1 \quad x = 3$



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Mar 2-9:36 AM

Handwritten notes:

Pg 318
43-51
Graphell

Dec 14-7:10 PM