

$y = (x-2)(x-3)(x-4)(x-5)$
 $y = (x-2)(x-3)(x-4)(x-5)$
 $x=2, x=3, x=4, x=5$

$y = (x-2)(x-3)^2(x-4)$
 $x=2, x=3, x=4$

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$y = \frac{(x-2)(x-5)}{x-3}$
 $x=2, x=3, x=5$

$y = \frac{(x-2)(x-5)}{(x-3)^2}$
 $x=2, x=3, x=5$

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$y = \frac{x^3 - 3x^2 + 2}{x-3}$
 $x=2, x=3, x=5$

$y = \frac{x^3 - 3x^2 + 2}{x^2 - 3x + 2} = \frac{(x-1)(x-2)(x-5)}{(x-1)(x-2)}$
 $y = x-5$
 $x=5$

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$y = \frac{x^2 - 3x + 2}{x^2 + x + 2} = \frac{(x-1)(x-2)}{(x+1)(x+2)}$
 $x=1, x=2, x=-1, x=-2$

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$y = \frac{x^2 + 3x + 2}{x^2 + 2x + 1} = \frac{(x+1)(x+2)}{(x+1)^2} = \frac{x+2}{x+1}$
 $x=-1, x=-2$

$y = \sqrt{\frac{x^2 - 1}{x^2 - 4x + 4}}$
 $y = \sqrt{\frac{(x-1)(x+1)}{(x-2)^2}}$
 $x=1, x=-1, x=2$

$y = \sqrt{\frac{(x-1)(x+1)}{(x-2)^2}}$
 $x=1, x=-1, x=2$

$y = \sqrt{\frac{(x-1)(x+1)}{(x-2)^2}}$
 $x=1, x=-1, x=2$

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